FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

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LONDON, SATURDAY, MARCH 29, 1884.

SUPPLEMENT. | SPRICE SIXPENCE | SUPPLEMENT. | SEX POST. 21 40. PER ANNUM

MR. JAMES H. CROFTS, STOCK AND SHARE DEALER,
No. 1, FINCH LANE, CORNHILL, LONDON, E.C.
ESTABLISHED 1842.

Business transacted in all descriptions of Mining Stocks and Shares
British and Foreign), Consols, Banks, Bonds (Foreign and Colonial), Railways, Insurance, Assurance, Telegraph, Tramway, Shipping, Canal, Gas,
Water, and Dock Shares, and all Miscollaneous Shares.

Business negociated in Stocks and Shares not having a general market
value.

value. Every Friday a general and reliable List issued (a copy of which will be forwarded on application), containing closing

prices of the week. Mines Inspected.

Bankres: City Bank, Londow—South Communit Bank, St. Austril.

Trlephone Number 1003. 50 Panuicillo. 55 Prince of Wales. 65 Pestarena. 20 Rio Tinto. 50 Ruby. 80 Rhodes Reef.

SPECIAL DEALINGS in the following, or part:

0 Asia Minor.

5 Akankoo, fully paid.

0 ditto, 17s. 6d. paid.

15 Quantialake (Clitters he following, or part;—
\$5 Guinea Coast Gold.
20 Great Laxey.
15 Gunnislake (Clitters).
100 Hawkin's Hill.
65 Hingston Down,
150 Hoover Hill.
50 Home Mines Trust.
100 Holan Consolidated,
200 Indian Consolidated,
200 Indian Glenrock. ditto, 17s. 5d. paid Almada. Bedford United. Bratsberg. Bwich United. Cankim Bamoo. Carn Camborne. Callao Bis. Ohile Gold. Colsombian Hydra Consolidated. Colombian Hydraulie Consolidated. California. Colorado 120 Javali.

40 Carn Camborne.

100 Indian Glenrock.

120 Javail.

20 South Caradon.

120 Javail.

20 South Condurrow.

100 Consolidated.

100 Consolidated.

100 Colorado.

100 Cordon.

100 Cordon.

100 Cordon.

100 Cordon.

100 Cordon.

100 Devala Moyar.

100 Done Friendship.

100 Devala Moyar.

100 Done Friendship.

100 Done Pedro.

100 Done

PAILWAYS — SPECIAL BUSINESS.— Fortnightly Accounts opened on receipt of the usual cover.

JAMES H. CROFTS, 1, FINCH LANE, LONDON. POREIGN BONDS — SPECIAL RUSINESS. — Fortnightly Accounts opened on receipt of the usual cover.

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

30 Rhodes Reef.
25 Richmond.
20 Roman Gravels.
20 South Caradon.
20 South Condurrow.
50 South East Wynaad.
50 South Darren.
50 South Pastern.
50 South Pastern.
50 South Penstruthal.
50 Tambracherry.
50 Tanker. Gt. Consols.
15 Tolima A.
20 ditto B.
103 Tressavean.
25 Tressavean.

MERICAN AND CANADIAN STOCKS AND SHARES—
Special Business.
Fortnightly Accounts opened on receipt of the usual cover.

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

OI.D AND SILVER MINES.—SPECIAL BUSINESS in ALL marketable INDIAN GOLD SHARES, and in California, Callao "Bis," Gold Coast, Guinea Gold Coast, Lisbon-Berlyn, New Callao, West Callao, Tolima B, Tolima B, La Piata, Rio Tinto, Frontino and Bolivia, Potosi, Ohile, Nouveau Monde, Ruby, Richmond. Victoria.

*** SHARES IN THE ABOVE SOLD FOR FORWARD DELIVERY ONE, TWO, OR THREE MONTHS ON DEPOSIT OF TWENTY PER CENT.

JAMES H, CROFTS, 1, FINCH LANE, LONDON.

MISCELLANEOUS SHARES of all DESCRIPTIONS BOUGHT or SOLD—SPECIAL BUSINESS:—Brighton Aquarlum, General Oredit, Rulson's Bay, Native Guano, Suez Canal, Westminster Aquarlum, and Hotel

Shares.
Shares Sold for forward delivery, One, Two, or Three Months, on De posit of Twenty Per Cent.

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

CLECTRIC LIGHT SHARES - SPECIAL BUSINESS. Anglo-American Hammond. Swan.

Maxim-Weston.

Shares sold for cash, account, or for forward delivery (one, two, or three conths) on deposit of 20 per cent.

JAMES H. OROFTS, 1, FINCH LANE, LONDON.

TAST WHEAL ROSE, OLD SHEPHERDS, MOUNTS BAY,
TREBAVEAN, HOME MINES TRUST, DUCHY PERU.
SPECIAL BUSINESS in the above for cash or account.
For Special Sale, for Forward Delivery, Owr, Two, or There Months, subject to deposit of Twenty Per Cent,—100 Duchy Peru, 100 East Wheal
Rose, 200 Old Shepherds, 100 Tresavean, 200 Mounts Bay
JAMES H. CROFTS, 1, FINOR LANE LONDON.
ESTABLISHED 1842.

MI. W. H. BUMPUS, STOCK AND SHARE BROKER, AND MINING SHARE DEALER, 44, THREADMEDLE STREET, LONDON, E.C. ESTABLISHED 1867.

BUSINESS transacted in ETOCK EXCHANGE SECURITIES
and MISCELLANEOUS SHARES of every description.
BAILWAYS, BANKS, FOREIGN and COLONIAL BONDS.
TKANWAYS, TELEGRAPHS, and all the LEADING INVESTMENTS
Accounts opened for the Fortnightly Settlement.
A List of investments free on application.
Mr. BUMPUS has SPECIAL BUSINESS in the undermentioned:—
00 Almain. 100 Eberhardt. 100 Old Shepherds.

A List of Investments free on application.

Mr. MIMPUB has SPECIAL BUSINESS in the undermentioned:—

100 Almain. 100 Eberhardt. 100 Old Shepherds.

71 Asia Minor. 25 East Lovell. 40 Panulcillo.

80 Bratsberd. 40 Ecton. 100 Pen-yr-Orsedd.

20 Bratsberd. 50 Frongoch. 200 Petosl. 100 Pendello.

20 Carn Brea. 10 Great Holway. 10 Fronce of Wales.

100 Carn Camborne. 30 Great Holway. 70 Ruby. 200 Chondaise. 100 Home Mines Trust. 25 Richmond. 100 South Kitty. 100 Child Gold. 25 Killifreth. 100 Carl Gold. 25 Killifreth. 100 California Gold. 120 Les Plata. 50 South Oaradon. 150 Calino Bis. 100 Montana. 50 Treavanance. 150 Colino Bis. 100 Montana. 50 Transvaal Gold. 15 Copiago. 100 Lisbon-Berlyn. 15 Tolima B. 150 Calino Bis. 100 Montana. 50 Transvaal Gold. 15 Cook's Kitchen. 50 Marke Valley. 10 United Mexican. 50 Canada Copper. 100 Mounts Bay. 50 West Goldphin. 15 Minera. 20 West Goldphin. 15 West Kitty. 50 West Goldphin. 16 New Kitty.

BRITISH AND FOREIGN MINING OFFICES 18. AUSTIN PRIARS OLD BROAD STREET, LONDON, E.C. BANKERS: THE ALLIANCE BANK (Limited).

MESSRS. PETER WATSON AND CO.'S
BRITISH AND FOREIGN MONTHLY MINING NEWS
STOCK AND SHARE INVESTMENT NOTES—MINES,
MINERALS, AND METAL MARKETS—SHARE LIST,
NO. 864, Vol. XVII., for APRIL month, will shortly be ready,
and will be sent to customers on application. MESSES.

Annual Subscription...... 5s. | Single Copy..... The Title Page and Index to our Eighteenth Volume are now ready, and can be obtained on application.

M R. A L F R E D E . STOOK and SHARE DEALER. COOKE, 9, OLD BROAD STREET, LONDON. ESTABLISHED 1853.

MR. ALFRED B. COOKE CAN SELL the following shares, or portions thereof, at LOWEST CURRENT MARKET QUOTATIONS FREE of COMMISSIONS.

40 Bratsberg Copper. 50 Mounts Bay. 20 South Darren Silver100 Colombian Hydraulic Copper. 20 New Kitty Tin. 20 South Darren Silver100 Colombian Hydraulic Copper. 20 New Caradon Copper. 20 Moureau Monde Gold. 50 North Blue Hills. 20 Corporation of South Australia Copper. 40 Old Shepherds. 50 Organos. 50 Organos. 50 Organos. 50 Organos. 50 Orta Gold. 50 Devon Friendship. 50 Orta Gold. 50 Callao Bis Gold.
100 Colombian Hydraulic
Gold.
25 Carn Camborne Tin &
Copper.
50 Chontales Gold.
10 Corporation of South
Australia Copper.
50 Cartago Gold.
50 Devon Friendship.
50 Delosath Tin.
40 Duchy Peru Bilver-ld.
100 East Rose Lead.
60 East Blue Hills Tin.
10 East Lovell Tin.
20 Ecton Copper.
20 Gold Coast.
50 Home Mines Trust.
75 Le Plata Lead.
40 Leadhills.
60 Lisbon-Berlyn Gold.
TEM PER CENT. DEP.

10 South Frances Tin. 80 South Kitty Tin. TEN PER CENT. DEPOSIT.—Many of the above shares can be sold settlement by arrangement at the middle or end of May on payment 10 per cent. deposit. Shares not found in the above list may be purchased application.

10 per cent. deposit. Shares not found in the above list may be purchased on application.

Mr. Alfred E. Cooke is a BUYER of the following SHARES:—
15 Brataberg.
3 Dolcoath.
20 Cast Lovell.
20 Cast Lovell.
20 Cast Lovell.
30 Organos.
40 Victoria.
25 Ecton.
60 Home Mines Trust.
10 Tankerville.
30 Organos.
40 Victoria.
40 Victoria.
40 Victoria.
40 Wheal Crebor.
100 Tankerville.
5 PE CIA L.—EAST BLUB HILLS, EAST LOVELL, NOUVEAU MONDE, BOUTH KITTY, SOUTH FRANCES, WEST KITTY, WHEAL AGAR, and WEST CREBOR shares are likely to ADVANCE.
Shares can be supplied for OASH or FORWARD DELIVERT.
PRICE LIST of MINE SHARES and the LEADING RAILWAY and FOREIGN STOCKS is issued every FRIDAY.

INVESTMENT
08
SPECULATION.
RAILWAYS, FOREIGN
STOOKS, &c.
ALFRED E COOKE, 3, OLD BROAD STREET, LONDON.
(Opposite the Stock Exchange, with which the offices are in DIRECT TELEGRAPHIC COMMUNICATION.).
TELEPHONE NUMBER, 1285.

R. JAMES STOCKER, STOCKEROKER, 2. CROWN COURT, THREADNEEDLE STREET, LONDON, E.C., Special Business in the following for cash or settlement by arrangement as Special Busines of commission:— Almada. Akankoo.

60 East Rose. Gold Coast. Akankoo.
Bratsberg.
Consolidated Silver.
Californian.
Calicornian.
Callao Bis.
Carn Camborne.
Chile Gold.
Chontales.
Colombian.
Colorado.
Cor. So. Austra. Cop.
O Copiano. Gold Coast.
25 Great Laxey.
50 Home Mines,
180 Javali.
60 Kapanga.
150 Kohinoor B.
50 Le Plata.
50 Leadhills.
80 Lisbon-Berlyn.
35 Montana.

45 Prince of Wales.
45 Polberro.
25 Polberro.
20 Richmond.
55 South Kitty.
15 South Frances.
60 South Fenstruthal.
70 Tressvean.
50 Transvaal Gold.
15 Tolima A.
30 United Mexican.
100 Victoria Gold.
60 West Calno.
20 West Kitty.
25 Wheal Grebor
fiscollaneous Shares, and 30 Cor. So. Austra. Cop.
30 Copiano.
50 Devon Friendship.
55 Devon Consols.
100 Mounts Bay.
55 Michipleoton.
75 New Callao.
100 Nouveau Monde.
60 Old Shepherds.
55 Ecton.
Railways, Foreign Bonds, Gold and Silver Mines, all Stock Exchange Securities.

ESTABLISHED 1851.
BANKERS: LONDON AND WESTMINSTEE.

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STOCK AND SHARE DEALER,
LEADENHALL HOUSE, 101, LEADENHALL STREET, LONDON, N.C. DAVIDSON,

Prince of Wales.
Potosi.
Polberro.
Richmond.

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and others,
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for
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Co.'s
MID-MARCH
STOCK LIST.

NVESTORS have a sure Guide Markers, as
proved by the results of the last Three Months.
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ready, and forwarded free on application.
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42, POULTRY, LONDON, E.C.

JOHN B. REYNOLDS, STOCK AND SHARE DEALER, 37. WALBROOK, LONDON, E.C. Established Twenty-five Years. BANKERS: LONDON JOINT-STOCK.

WEST KITTY, NEW KITTY, AND TREVAUNANCE. The very important meetings or these first-class mining companies are re-ported fully on page 353, and the attention of those interested is particularly directed to the same. POLBERRO, ST. AGNES.

The shares of this mine are in favour, and will advance probably to a very high figure. The mine has been inspected by gentlemen who are well known, and whose opinions are universally respected. Mr. REYNOLDS will be happy to furnish the particulars of their report, and to give to his correspondents any formation in h's power. The books of the company and all other particulars are open for inspection at the company's offices. The management is the same as that of West Kitty, an it he property promises to be of a very high order. Mr. REYNOLDS directs attention to the fact that those who have purchased the shores can already obtain a fair profit. Mr. REYNOLDS further directs attention to the circumstances of his having been the first to introduce West Kitty, under very similar circumstances to those which now characterise Polberro, St. Agnes, and Mr. REYNOLDS with equal confidence recommends the latter company's shares. West Kitty, with at present 12s. per share paid, returns 30s. per share per annum as a minimum dividend with every prospect of further increase. When

FERDINAND B. KIBK, STOCKBROKER 5. BIRCHIN LANE, LONDON, E.O.

SPECIAL BUSINESS.

50 Brataberg.
50 Chile Gold.
50 Leadhills.
60 Montana.
50 East Wheal Rose.
51 HARES WANTED:
60 East Wheal Rose.
70 Old Shepherds.
70 Kapangs.
70 Kapangs.
60 Tresavean.
70 Kapangs.
60 Tresavean.
70 Kapangs.
60 Tresavean.
70 Kapangs.
70 Kapangs.
70 Foreighty accounts opened in Home Railways, Foreign Bonds, Ameriand Canadian Railways, on receipt of the usual cover.

BANKERS: LONDON AND WESTMINSTER, Lothbury.

THE

RENTIAL " SPECIAL BUSINESS in the following:—
50 Brataberg.
60 Chile Gold.
40 East Wheal Rose.
61 Appendix Names.
60 Montana.

PUMPING ENGINE (DAVEY'S PATENT),

DRAINING MINES, WATER SUPPLY OF TOWNS, IRRIGATION, SUPPLYING DOCKS, PUMPING SEWAGE, and GENERAL PUMPING PURPOSES.

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MR. J. GRANT MACLEAN, SHAREBROKER AND IRONBROKER, STIRLING, N.B., Refers to his Share Market Report on page 366 of to-day's Journal.

MR. E. J. BARTLETT, STOCK AND SHARE DEALBR, 30, GREAT ST. HELENS, LONDON, E.C.
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BANKERS: LONDON AND WESTMINSTER, Lothbury, H.C.

M. R. W. TREGELLAS, 40, BISHOPSGATE STREET WITHIN, E.O.,
Deals in all descriptions of STOOKS and SHARES at close market prices.

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TOLIMA, WESTERN ANDES, and CORPORATION SOUTH AUSTRA-

M ESSRS. H. HALFORD AND CO., STOCK AND SHARE BROKERS 2, ROYAL EXCHANGE AVENUE, E.C., Have BUSINESS in ECTON COMPANY SHARES. SELLERS are requested to communicate with the above.

R. W. MARLBOROUGH, STOCK AND SHARE DEALER,
29, BISHOPSGATE STREET, LONDON, E.O. (Established 31 Years)
Can Sell the following SHARES:—
120 Almada.
25 Bratsberg.
125 Colombian Hydraulic
60 Corporation of South
Australian Copper.
150 Colorado.
150 Colorado.
150 Olorado.
150 Olorado.
160 Per Phillip.
100 Port Phillip.
100 Fort Phillip.
1

the the said hold on I will I ris age not

MINING EXTRAORDINARY.

The MINES are so rich that the OWNERS have AGREED the WHOLE of the DEBENTURE CAPITAL shall be REPAID, with INTEREST, before they can MAKE any PROFIT.

BONA FIDE REASONS FOR COMPANY.

This Company is formed to erect machinery to render marketable ores exposed to view. The OWNERS GIVE a MORTGAGE on the property, as well as an INTEREST in the

FOUR THOUSAND POUNDS have been placed with the Company's Bankers to PAY the first year's INTEREST.

orth Mexican Silver Mining Company, Limite criptions are invited for 3000 SEVEN PER CENT. FIRST MORTGAGE DEBENTURES of £20 each. With every DEBENTURE FULLY PAID UP SHARES for £20, FREE FROM all

Subscriptions are invited for 3000 SEVEN PER CENT. FIRST MOETGAGE DEBENTURES of £20 each. With every DEBENTURE FULLY PAID UP SHARES for £20, FREE FROM all LIABILITY, will be GIVEN as a BONUS.

The Debentures MUST be PAID off BEFORE any DIVIDENDS can be paid on the Shares.

Each subscriber gets his capital, with interest, returned by the payment of the Debenture, and a Share in the future profits of the Mines, through the FULLY PAID SHARES PRESENTED GRATIS.

Mr. T. B. Provis, M.I.C.E., the engineer sent out to verify the vendors' statements, reported there would be a MINIMUM INCOME of £75,000 (to INCREASE at an early date to £105,000).

This sum will pay back the principle the second year, and a DIVIDEND of over THIRTY PER CENT. per annum to the Debenture holders on their share capital the third year.

Deposits:—£2 on Application, £5 on Allotment.

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S. B. COXON, Esq., M.I.C.E., F.G.S., Victoria Chambers, Westminster.

The Hon. H. ROPER-CURZON (late Assistant Inspector, Exchequer and Audit Department).

HENRY AYSHFORD SANFORD, Esq., Chester Street, Grovenor Place.

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SECRETARY (pro tem.)—Mr. F. W. PORTER.

OFFICES—20, ST. HELEN'S PLACE,

OFFICES-20, ST. HELEN'S PLACE, E.C.

This capital is raised not to discover whether ores exist, but to

erect machinery to reduce them.

The company owns seven mines at Cusihuiriachic, Chihuahua, extending two miles in length, with shafts sunk, levels opened, and

extending two miles in length, with shafts sunk, levels opened, and ore ready for immediate extraction.

Until the opening of the Mexican Railway just completed, this company's mines were practically inaccessible.

All supplies had to be taken 800 miles by mules.

The registered production of this district under these difficulties has amounted to £8,500,000 sterling.

Mr. Thomas H. Provis, M.I.C.E., engineer and superintendent of the Potosi Gold Mining Company (Limited), who was specially sent out to examine the mines, reported the minerals to be practically inexhaustible, and the minimum income would be £15,000, to the stamping power. He further reported that the average assays of the poorer ores taken from the shafts, and along the sides of the levels from five of the company's mines, yielded respectively \$49, \$451, \$28, \$65, and \$85 to the ton; and he added, "All these samples were taken from portions of the veins that were left by the Spaniards, and it will be seen that it is not a fair average of the richness of the veins, as it is hardly likely the Spaniards would leave the best of the veins, as it is hardly likely the Spaniards would leave the best of the stone; and he concluded by observing, "Every assurance of success from the investment is guaranteed by the uniformity in the yield of silver per ton, while the great length and width of the fissures are sufficient to ensure a regular output of mineral, and I do not hesitate to say that during the 15 years of my experience as mining engineer in the West of England, Brazil, Colorado, the United

States, and South America, taking it as a whole, this is the best unwrought silver mining property that has been my good fortune to see, and I only add, in conclusion, that I see nothing to prevent this property from paying to the shareholders profits on a much larger scale than I have ventured to put forth in this report."

The "Encyclopædia Britannica" states—" In recenttimes one-half of the silver produced in the wide world has been supplied by Mexico."

The opening of the Mexican Central Railway in May next will remove all these obstacles, and enormous fortunes will be realised by those early in the field.

Hence the remarkable prospects of this company, which are best shown by the recent rise in the United Mexican shares from 1½ to 10, or over 600 per cent.

PROTECTION TO INVESTORS.

According to Her Majesty's speech diplomatic relations with Mexico are to be resumed, and a report printed by order of Parliament referred "to the tranquillity of the country."

The directors have stipulated that if at the end of three months working they do not see the way to successful results, the vendor will take back the property and repay the capital expended.

It may safely be said that never was mining capital sought to be raised with such exceptional protection to investors, which the known exceeding richness of the company's properties alone could justify the owner of the mines consenting to.

This the public are convinced of, judging from the demand spring-

This the public are convinced of, judging from the demand springing up for the debentures.

RESULTS CERTAIN.

The extent of the profit which will be made by the debenture-holders can be best judged from the fact that the mines paid, with the ore, refuse, and water being raised in leathern sacks by men climbing poles with notches; even ladders and wheel-barrows were

unknown.

The above is only a tithe of the wonderful historical and official reports contained in the prospectus, which should be obtained of the secretary, 20, St. Helen's-place, London.

Debentures can be secured by letter to the secretary, enclosing

£2 deposit each debenture.

he Consolidated Land and Cattle Company,

Incorporated under the Companies Acts, 1862 to 1883, whereby the liability of the shareholders is limited to the amount of their Shares.

CAPITAL £750,000, IN 150,000 SHARES OF £5 EACH.

FIRST ISSUE £500,000, IN 100,000 SHARES OF £5 EACH,

Of which 20,000 fully-paid Shares are taken by the Vendors as part of the purchase-money.

For the first three years the Vendors' Shares are to receive no dividend until 8 per cent. has been paid in each year on the Ordinary Shares.

£1 per share payable on application; £1 on allotment; £1 one month after allotment, and the balance by calls of £1 each as required, at intervals of not less than one month. No payment will be made to the vendors until the titles to the ranches have been examined and approved to the satisfaction of the directors by an agent to be appointed by them.

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The Right Hon. the Earl of MAR and KELLIE, Alloa Park, N.B.
The Right Hon. Lord LOVAT, Beaufort Castle, Inverness-shire, N.B.
Sir GEORGE MACPHERSON GRANT, Bart., M.P., Ballindalloch Castle, Elginshire, N.B.
JOHN MCCULLOCH, Esq. (late Inspector in America of the Dundee Mortgage and Investment Companies), Glenhead House, Stranraer, N.B., and 2, Royal Exchange Avenue, London, E.C.
H. C. NEWSON, Esq., Land Agent, 57, Lincoln's Inn Fields, London.

CONSULTING DIRECTORS IN TRYAGE

H. C. NEWSON, Esq., Land Agent, 57, Lincoln's Inn Fields, London.

CONSULTING DIRECTORS IN TEXAS.

A. M. BRITTON, Esq., Fort Worth (Manager of the Matador Land and Cattle Company (Limited), and President of City National Bank).

olonel J. P. SMITH, Banker, and Mayor of Fort Wayne.

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AUDITOR—JAMES GLEGG, Esq., of the firm of Messrs. Quilter, Ball, and Co., Moorgate Street, E.C., London.

MANAGER IN AMERICA—GEORGE B. LOVING, Fort Worth, Texas.

SECRETARY (pro tem.)—H. R. LEWIS, Esq.

OFFICES-BARTHOLOMEW HOUSE, BARTHOLOMEW LANE, LONDON.

PROSPECTUS.

This company is formed to purchase and consolidate the well-known Wiren, Rittson, Milisap, and Milliken, Mann, Jackson, and Elkin Cattle Herds and Ranches, consisting of 100,000 acres of freehold lands, 75,500 heads of branded cattle, and the calf crop of 1834, estimated to number 20,000 to 25,000 head, also 1800 horses, 2000 hogs, ranche implements, equipage, improvements, &c., all in the State of Texas, U.S.A., and to carry on the business of raising cattle and other live stock in the United States of America. The directors have obtained the option to acquire all or any of the said ranches as they may see fit.

The object of transferring the herds to a single company is to lessen the proportionate expenses, extend the improvements, and develop the herds, which combined will form one of the largest, as they are already well known to be among the best graded, herds of any magnitude in the State.

The outiness of cattle raising in the Western States of America is now achoneviedged to be highly remunerative. Numerous companies have lately been formed for carrying it on, and are working very successfully. The following figures will show the last dividends paid by ranche companies formed during the last few years, and as this class of investment is rapidly growing in public last few years, and as this class of investment is rapidly growing in public

should be noted mass no payment who is a many and the rivers named, there are numerous creeks and well-watered streams scattered over the entire range, and at no season of the year will the cattle require to travel any great distance to find an abundance of good water; in fact, the moderate climate, the saccellence of the grazing land, and abundance of water and shelter at all seasons, combined to make these ranches one of the most valuable pastoral properties in the States, and when consolidated under one management will give still more important results.

ortant results.

of the ranches with regard to markets is excellent. They are

within 40 miles of Colorado City, on the Texas Pacific Raliway, which line has in the last few years opened up such facilities as to enormously increase the demand for stock of all kinds from this district.

The ranch houses are situated at suitable distances all over the range, and are provided with the necessary enclosed pastures, yards, branding pens, wagons, harness, and all other camp outfit, to make them in every sense complete.

THE PURCHASE MONEY IS MADE UP AS FOLLOWS:

reduced. The calf crop for the present year, estimated to number between 20,000 a 25,009 head, will, according to the terms of purchase, be the property of company, without any payment being made for them, titus increasing number of the herd to about 100,000 head, and reducing the average cost about \$18.75 per head; and it may be mentioned that in the herd there about 10,000 beeves, which will be ready for market this autumn, which sold for \$35 per head, would be \$10 per head more than is being paid them.

sold for \$35 per head, would be \$10 per neau more time as recompliant them.

The information given in this prospectus is taken from the reports, made from personal inspection, of Robert Bruce, Esq., of Great Smeaton, Northalierton, a gentleman of considerable practical experience in valuing live stock in England, Scotland, and America, and familiar with ranching business generally; John McCulioch, Esq., of Glennead House, Strannaer, who is one of the highest authorities on ranch matters in Great Britain (who has joined the board); and Hugh A. Fergusson, Esq., of 35, Welbeck-street, London, a gentleman with great experience in cattle and other live stock. The special attention of investors is called to these reports, copies of which accompany the prospectus.

Under proper management, I have not the slightest doubt but that the chase of the stock and property on the above-mentioned six ranches, at the Applicat res named to me, must be a good investment, and that a handsome persage on capital invested may be paid year by year, while at the end of a lew Company.

years the stock will be increased in number and value at a compound ratio. This increase of stock will be better understood when I state that it can be proved that in this district of Texas over 50 per cent, of the cows will bring calves to the branding pens year after year."

Mr. Fergusson states:—

"Finally, I consider that the cattle are, on the whole, a very good lot. The range is ample, and the condition the cattle are in at present denotes that feed is abundant. I think there is no doubt that water is plentiful all the year round. The crop of steers for next year will be a large one, and I consider the whole property to be worth the price asked for it. Under good management is should pay good dividends, and, as it is a going concern, no great amount of money should be spent in improvements.

Mr. McCulloch says:—

"Taking this range as a breeding one pure and simple, and selling yearlings at present prices, \$13 to \$22 a head, the dividend would be 20 per cent, but as beef will more likely hold or advance on present prices than range cattle I could not counsel the change unless with a provision for fattening the steers, a pre-

beef will more likely hold or advance on present prices than range cattle I could not counset the change uniess with a provision for fattening the steers, a pre-caution worthy the consideration of the directors of any cattle company devoted entirely to breeding."

One noticeable fact in the reports is that they were made at different times, by parties entire strangers to each other, and while they never met or consulted with one another yet their reports agree in the main, and differ but little from the description and facts given by the vendors. Copies of these reports in full, together with map of the range, may be had on application at the offices of the company.

the description and facts given by the ventors. Copies of these reports in functogether with map of the range, may be had on application at the offices of the company.

The purchase will take effect as from the 1st of March, 1884, and the contract provides that the ventors not only give full and complete warranty to all the properties described, but guarantee and defend the representations made therein, and any deficiency is to be allowed for on the settlement of the purchase. No money will be paid, neither will the company take over the proprietorship of the range, nor assume its management, till the titles have been found to be in conformity with American law.

The only contract entered into is the following—viz., one dated the 22nd day of March, 1884, made between the Texas Investment Company (Limited) of the first part, George Barnett Loving, of the second part, and Frederick Charles Pocklington, as trustee on behalf of this company, of the third part, for the sale and purchase of the before-mentioned ranches, stock, and improvements, at the sum of \$2,232,200, equal to £460,309 sterling.

All preliminary and other expenses of and incident to the formation of the company up to the allotment of shares are undertaken by the vendors, who are the promoters; and in the event of moliging to allotment the deposits, or in the event of the report of the agents, to be selected by the directors to verify the titles and take over the properties, not being to their satisfaction, the moneys paid upon deposit and allotment, will be returned in full. In the event of the company taking over the properties, not being to their satisfaction, the moneys paid upon deposit and allotment, will be returned in full. In the event of the company taking over the properties, not being to their satisfaction, the moneys paid upon deposit and allotment, will be returned in full. In the event of the company taking over the properties, the sum of £1000 will be paid to the vendors in respect of the reports of Mesars, Bruce and Fergusson.

Appl

Meetings of Bublic Companies.

TREVAUNANCE UNITED MINES.

The four-monthly meeting of shareholders was held at the offices of the company Walbrook, on Wednesday,

Mr. JOHN B. REYNOLDS in the chair.

Mr. FREDK. J. HARVEY (the secretary) read the notice calling the meeting, and also the accounts, showing a balance of cash at the bankers of 1951. 14s. 2d., with no liabilities due and unpaid, and said that they had been audited by Mr. Payne, one of the sharesaid that they had been audited by Mr. Payne, one of t holders.

Mr. Harvey also read the manager's report, as follows:—

the meeting, and also the accounts, showing a balance of cash at the bankers of 1951. Hs. 2d., with no liabilities due and unpaid, and said that they had been audited by Mr. Payne, one of the shareholders.

Mr. 182.—I beg to hand you the following report. At the meeting held on Nov. 28, 1831, I stated in my report that we had intersected accopier lode worth 161, per and 184 on Nov. 28, 1831, I stated in my report that we had intersected on the copper lode; we will not be a support that the state of the lotter of the lotter of the lotter of the lotter of his lotter of the lotter of his lotter of hi

Vaunance would be the near lines in the Charles of the Charles of

been made or writing and it now seemed to him almost a certainty that frewed the content of the next mine in the St. Agnes district to enter the Dividend List. (Cheers.)

The Ciralman said he should be happy to hear any observations or answer any questions.

Mr. B. Payns said everything seemed so satisfactory that there were really no questions to be put, but he thought that the shareholders would like to hear a few remarks from Oapt. Vivian. (Hear, hear.)

Capt. Vivian: I do not know what more can be said than has already been said. I do not like to come to a meeting with improvements or an improvement just for the meeting. People have made very unkind remarks, not about our mines but other mines. There is very often an improvement, or a stream of water, or something of the kind reported to a meeting. (A laugh.) Well, this lode has been cut some months. At our last meeting we had cut this lode, and I then reported the was worth 15t, per fathom for copper. Not being a copper of a tin lode, very hard, and we pushed 16t. There was another part of the lode, and I then reported the was worth 15t, per fathom for copper. Not being a copper of a tin lode, very hard, and we pushed 16t. There was another part of the lode. There is tin in it, but not rich. I began to consider that that part of the lode. There is tin in it, but not rich. I began to consider that that part of the lode has continued to improve. I do not generally bring specimens, but that stone was broken on Monday night. The lode still continued improving. I took a sample of what had been broken from the lode and sent it to the assayer, and I have the result here. It is very rich copper ore, very rich indeed, and if this lode continues it will be a very good thing indeed. (Cheers.) In fact we are diving this end for \$t\$, per fathom, and it is worth 30t. Not being a copper district it have not valued it up to what the will really assay the many than the continue is will be a very good thing indeed. (Cheers.) In fact we are district have not always looked up

neer, and they could not do better than appoint Mr. Michell, who had erected the excellent engines on the West Kitty and neighbouring mines. (Hear.) The OHARMAN said that they could not do better than appoint Mr. Michell, who was one of the best engineers in the county of Cornwall, and who had served some of the other companies in the same capacity with singular fidelity. The resolution for the adoption of the report and accounts was then put and sarried unanimously.

The resolution for the adoption of the report and accounts was then put arried unanimously.

On the motion of Capt. Vivian, seconded by a Sharrholder, Mr. Michell was ben elected engineer to the company.

The Charrham's said the appointment would not involve any payment till there as work to do. As regarded a call he thought it would be better to make a mail call, as it would make the financial position of the company so much beter. A shilling call would be amply sufficient.

Mr. S. Payne expressed his great gratification at the present promising position of the company. He moved that a call of 1s, per share be made, payable to he bankers of the company, Messrs. Williams, Williams, and Grylis, Truro, on refore April 15.

the could not be amply sufficient.

Mr. 8 PAYNE expressed his great gratification at the present promising position of the company. He moved that a call of is, per share be made, payable to the bankers of the company, Messrs. Williams, Williams, and Grylls, Truro, on or before April 15.

The motion having been seconded, was carried unanimously.

On the motion of Mr. Bunfus, seconded by Mr. Dors, the audit and finance committee were re-elected, with thanks to them for their services.

Mr. Harver then tendered his resignation as secretary. He expressed his regret at being compelled to do this, but said the press of work was so great that he really could not do justice to it, and also to Mr. Reynolds' private work. With respect to Mr. Williamson Reynolds, who would no doubt be his successor, he could only say that he had had opportunities of seeing that gentleman's capacity and aptitude for business, and had found him to be exceptionally careful, accurate, and thorough in all he did. (Cheers.)

Mr. G. Budd moved that the resignation of Mr. Harvey be accepted, and that the best thanks of the shareholders be given to him for his diligent and faithful services; to the company.—Mr. GAIT seconded the motion, which was carried unanimously.

Mr. LENNOX then proposed the election of Mr. Williamson J. Reynolds as secretary, at a salary of £6, 5s. per month. He expressed the great pleasure it gave him to move the resolution, and he was sure Mr. Reynolds would ably fulfil the duties of the office.—A BHAREHOLDER seconded the motion in most complimentary terms, which was carried unanimously.

Mr. WILLIAMSON J. REYNOLDS acknowledged his election.

On the motion of the OHARIMAN, seconded by Mr. PAYNE, Mr. F. J. Harvey was unanimously appointed auditor of the company.

Mr. Michell also acknowledged his election to the office of engineer.

On the motion of Mr. MICHELL a cordial vote of thanks was passed to the Chaliman, and the meeting broke up.

NEW KITTY MINE COMPANY.

A four-monthly meeting of shareholders was held at the offices of the company, Walbrook, on Wednesday,

Mr. JOHN B. REYNOLDS presiding.

Mr. FREDK. J. HARVEY (the secretary) read the notice convening the meeting, and the statement of accounts, showing a balance of cast at the bankers of 163l. 16s. 9d., with no liabilities due and unpaid.

and the bankers of 1637. Iss. 94., with no Habilities due and ampaid.

Mr. HABWE also read the managers sport, as under:—

Merch 25.—I beg to hand you the following report. Since the meeting held in Nov. 21 sate where were would if ims, on the course of the local at the 50. The course of the course of the local at the 50. The course of the course of the local at the 50. The course of the course of the local that we is an advent of the cross-cut, but so far as seen the local is of no value. About a month since we enumed the driving of the cross-cut north of the local that we is possible to the course of the cour

neglect his work to attend to the business of the secretaryships. He was, therefore, compelled with regret to resign the position of secretary.

Mr. J. J. GAIT moved that the resignation of Mr. Harvey be accepted, and that the thanks of the meeting be accorded to him for his faithful and diligent services.—Mr. Bellingham seconded the resolution.

Mr. Dutton supressed his regret that Mr. Harvey should have found it necessary to resign.—The resolution was put and agreed to nem. con.

The ORAIRMAN said he shared in the regret expressed by Mr. Dutton.

Mr. Harvey briefly acknowledged the vote of thanks to him.

Mr. LENNOX moved the appointment of Mr. Reynolds, jun., as Mr. Harvey's successor, and a SHAREHOLDER seconded the proposition, which was carried unanimously.

On the reposition of the Civ. Harvey Mr.

manimously.

On the proposition of the CHAIRMAN Mr. Harvey was appointed auditor.
The CHAIRMAN, in reply to Mr. COUZENS, said there was no salary attache the office at present, but if the mine turned out as was expected the work o sundit would become an important matter. It would simply be a question small fee from time to time.

A vote of thanks to the Chairman closed the proceedings.

WEST KITTY MINE.

The four-monthly meeting of shareholders was held at the offices of the company, Walbrook, on Thursday,

Mr. JOHN B. REYNOLDS in the chair.

Mr. John B. Reynolds in the chair.

Mr. Fredk. J. Harvey (the secretary) read the notice calling the meeting, and also the agent's report, as follows:—

March 26.—I beg to hand you the following report:—In the 34 we are putting up a rise in the back of the cross-cut, about 40 fms. north of the engineshaft. I am expecting daily to intersect the lode. This point is about 50 fms. deeper on the course of the lode than the level above. In the 50, driving east, the lode is worth 91, per fathom. In the 72, driving east, the lode is worth 182, per fathom. In the 72, driving east, the lode is worth 182, per fathom. In the 72 west, in the last 5 fathoms driven the lode was small and poor, and it has gone very much off its course; I think the principal part of the lode must be to the south. I have put the men to drive a cross-cut south. In the 60, driving east of rise, the lode is worth 14. per fathom. In the rise in the back of the 50, east of main rise, the lode is worth 101. per fathom. In the 60, east of cross-cut, the lode is worth 192, per fathom. In the 50, driving east of No. 2 rise, the lode is worth 192, per fathom. In the stopes in the bottom of the 72 the lode is worth 204, per fathom. In the stopes in the bottom of the 72 the lode is worth 504, per fathom. In the stopes in the back of the 72, cast of main rise, the lode is worth 504, per fathom. In the stopes in the back of the 50, cast of cross-cut, the lode jis worth 504, per fathom. In the stopes in the back of the 50, cast of cross-cut, the lode jis worth 504, per fathom. In the stopes in the back of the 50, cast of cross-cut, the lode jis worth 504, per fathom. In the stopes in the back of the 50, cast of cross-cut, the lode jis worth 504, per fathom. In the stopes in the back of the 50, cast of cross-cut, the lode is worth 504, per fathom. In the stopes in the back of the 50, cast of cross-cut, the lode is worth 504, per fathom. In the stopes in the back of the 60, cast of cross-cut, the lode is worth 504, per fathom. In the stopes in the back of the 60

the shareholders at the meeting), showing a balance of cash at the bankers of 32631. 6s. 5d., with no liabilities due and unpaid, was

The statement of accounts (copiesof which were distributed amongst the shareholders at the meeting), showing a balance of cash at the bankers of 32634, 65. 5d., with no liabilities due and unpaid, was taken as read.

The CHAIRMAN said: Gentlemen, I am very pleased to see such a large attendance here to-day; it shows the interest you take in this very prosperous company. I am the more pleased to see you because the statement which we have the pleasure of rendering is the most successful statement ever rendered in the history of this mine. (Cheers.) You will find by the printed statement that the credit control of the printed statement which we have the month of the printed statement that the credit control has very properly pointed out in his report, that whereas we have only four monthy returns we have five months' costs, which have been paid. I am happy to inform you also that there are no liabilities which are due and unpaid, and that our last pay day at the mine was last statutay, so that the costs are brought up to the latest possible the the cost of the four months' returns, our dividend to-day would have been 2s, in excess of that which we shall be able to declare; but if the had been at the same price which it was between the meeting before last and last meeting, our dividend to-day would be 5s, per share in excess of what we shall now pay—that is to say, interested to the company of th

The resolution for the adoption of the 10p. seats also be paid forthwith on the carried unanimously.

Mr. G. Budd moved that a dividend of 10s, per share be paid forthwith on the 6000 shares of the company, free of income tax. They were not in a position to pay more than that without drawing slightly upon their credit, and this would be unwise considering the mine was conducted strictly on the "No credit system." The dividend to be declared to-day was exactly the amount of net earnings on the Mayous asconded the motion. He said the statement which

mine ise considering the mine was conducted strictly on the "No credit system." The dividend to be declared to-day was exactly the amount of net earnings on the working.—Mr. Bumpus seconded the motion. He said the statement which had been made fully explained why the dividend was not larger. He thought the shareholders had good reason to be satisfied, especially as they might look forward to a better dividend at the next meeting. The resolution was carried unanimously,
Mr. J. H. Chapter moved a vote of thanks to the committee for their services, and that they be re-elected. He had great pleasure in proposing that, because the committee of this mine had always done their duty. He did not use this as any conventional phrase at all. They knew very well that in Cornwall three had been complaints of the way in which some committees had performed their duties, and had not kept sufficient control and oversight over the mine, and the consequence was that the shareholders had gone to meetings, and had found they were in debt, with heavy calls to make. (Hear, hear.) At the last meeting in Cornwall, he had stated that this mine had set an excellent example to other mines in Cornwall; he considered that was so especially in regard to the way in which they conducted the financial part of the company. (Cheers.)
Mr. MICHELL returned thanks on the part of the committee, and fully agreed with all that had been add regarding the very promising appearance of the western portion of the mine.
Mr. LENOX proposed a cordial rote of thanks to Capt, Vivian, for his able

with all that had been said regarding the very promising appearance of the western portion of the mine.

Mr. LENNOX proposed a cordial vote of thanks to Capt, Vivian, for his able management, which was seconded by Mr. S. PAYSE, and carriet unanimously. Capt. Vivian acknowledged the vote. He said he did not put thig tin where it was, but he knew how to take it out, and he, whilst he was in their service, would do his best to take it away, and to give as much profit as possible. Reference had been made again and again to the western ground. He believed it was the West Kitty lode which they had going back in the western ground. They had 300 fms. of ground there. There were something like il parallel lodes which had been worked upon in the western ground, and nine out of the li had

bt that there would be as good uctive, and there was no reason to doubt that there would be as good of the in the western ground as in the eastern ground.

motion of Mr. LENNOX, seconded by Mr. BUNFUS, a cordial vote of as passed to the Chairman, and the meeting broke up.

TANKERVILLE GREAT CONSOLS.

Contage motion of Mr. Lengua, seconded by Mr. Burres, a cordial vote of thanks was passed to the Chairman, and the mesting broke up.

TANKERVILLE GREAT CONSOLS.

A meeting of shareholders was held at the offices of the company Austin Friars, on Wednesday,—Mr. Parres Warson in the chair.

Mr. J. H. MUSCHISON (the secretary) read the notice calling the meeting, and the report of the directors was taken as read.

The CHAIRMAN, after expressing regret at the unavoidable absence of Mr. Samuel York, one of the directors, said:—It is the old story which the Chairman of a lead mining company has now always to tell at the periodical meetings of the shareholders. We seem year by year to get deeper into the mire with respect to the price of lead. Such a depreciation has never been known—I was going to say—but I find that the price of pig-lead many years ago was down to about 11 JL, whereas the price of ore was better than it is now. At the same time we have seen great fluctuations in the price of lead ore. We have seen it as low as 6t. 10s., and as high as 18t. Pig-lead has failen to 11t., at which price it is at the present moment, and it has been up to 28t. and 30t., and even to 35t. a ton. Whether we have got to the bottom of the market remains to bessen, but I should think we have. Turning to the affairs of this company. I may remind the membershe for the capital remaining in preference shares, which amounts to 1238t. Had those shares been taken up our capital account would have presented a very different state from what is now does. We have really had to struggle on, and the work of the directors can only be described as arduous. The director was the structure of the capital remaining in preference shares, which amounts to 1238t. Had those shares been taken up our capital account would have presented a very different scace on the shares. The directors are the largest makendorer. My friend Mr. Shaw has the largest number of shares. I think I follow him, Mr. Bentley is next, and Mr. York has also a large holding. It ha

werhampton, pays his own expenses, and is always here. Mr. Bentley and Mr. York do the same, and as to the office work it is done in a most efficient way for a very moderate amount.

Mr. WILDE: I think the London office expenses are very moderate. (Hear.)
The CRAINMAN: The amount of work that has to be attended to outside the routine business is a very heavy tax, for we have a list of 700 shareholders. This is not one mine, but a group of mines. Fut them together and they constitute perhaps the largest group of lead mines in the country, taking the machinery and everything together. With regard to the humble individual who addresses you—your managing director—the arrangement made with him when he took office was that he should be paid the amount charged. I have lent the company money for the last 12 or 18 months, and not charged one penny for interest. The amount does not pay the postage, the telegrams, and the other incidentals which this company costs me each year. Some of the shareholders present have visited the mines, and they will reallse something of the duties which devolve upon the management to keep them going. The Chairman then went through the items in the accounts seriatins, showing how the expenses had been increased in consequence of the apathy of the shareholders in not subscribing for the preference shares. (Hear, hear.)

Mr WILDE said that the explanations were perfectly satisfactory.

The CRAIRMAN said he was glad to hear this, but he must reproach the shareholders, and especially some of them, with not having properly supported the board at the present crisis. (Hear, hear.)

The motion was then unanimously passed.

A SHAIRMADLES asked whether the price of lead had gone down because the demand was insufficient, or because the price was in excess?—The CRAIRMAN said that a great many of the English, German, and Spanish mines were stopping. In Wales three or four of the leading mines could not pay dividends at present prices, and a similar remark applies to the mines in the North of English. der

present prices, and a signiar remark applies to the mines in the Sorth of England. All this cessation of work must have an effect on the produce. Trade had been bad and the building trade had been so in a special manner. He had now to read a letter received from the agents of the lords with respect to the dues.

This letter was read in extense, and set forth that the lords were willing to meet the company in a friendly way. They were furthermore willing to do all they could to render assistance within reason. Fermission to cease pumping at Bog Mine would be granted upon the terms stated in the draft interest of the state of the state

Mr. Wilde: How much will it cost?—Capt. Wavens: Judging from past expenditure it will cost about 20%, a fathom for sinking.

The Chairman (to Capt Waters): If we had the remaining amount of capital (2000%) would that foe similation and drive out the lode, and do all other necessary work?—Capt. Wavens: Yes, that would be sufficient. The Chairman: We should not require all the money at once, It could be done by easy instalments over a period of (asy) eight to 12 months.

Mr. STEWART moved the re-election of Mr. York as a director.—Mr. Thos. Wilson seconded the motion, which was carried.

Several shareholders expressed their intention to take their full quota of the preference shares.

Mr. Stewar moved the re-election of Mr. 107s as a uncess.

Mr. Wilsos seconded the motion, which was carried.

Several shareholders expressed their intention to take their full quots of the preference shares.

Mr. Wilsos proposed that this meeting having heard the explanation of the managers desire to impress upon the absent shareholders the urgent necessity of subscribing for the remaining \$236 10 per cent. preference shares, and the directors be requested to send out a copy of these proceedings to each of the shareholders asking them to subscribe conditionally upon not less than 6000% worth of shares being paid up.

Mr. F. R. Wilson said that when he visited the mines in company with Mr. Watson last week they looked uncommonly well. He had never seen richer lead ore coming from Bog or Pennerly than he did on the occasion of this visit. Unless the shareholders subscribed this money the property was utterly value less. It was absurd to suppose that it would collapse, for other parties would work it, and so reap the benefit of the outlay made by this company.—Col. Cormack seconded the motion, which was carried nem. con.

Mr. H. C. Stewark bore testimony to the unremitting attention given to the affairs of the company by all concerned. His duties as auditor caused his fre quent attendance at the office, and he was thus enabled to appreciate better than other shareholders the services which had been readered by the Chairman and directors. He shought the thanks of the meeting were due to them for the advances they had personally made from time to time when the company were pressed for funds, and for the guarantee they had given the bankers.

This was seconded by Mr. Woodbridge, and carried unanimously. The CHAIRMAN, in acknowledging the vote on behalf of himself and colleagues, wished to impress on each shareholder the necessity of informing the directors as early as pessible what number of the preference shares he would be prepared to subscribe for.

Mr. H.RNRY Wilson (a director) pointed out that the shareholders

DRAKEWALLS UNITED TIN AND COPPER MINES.

The ordinary general meeting of shareholders was held at the fices, Austin Friars, on Thursday,

The Right Hon. Lord CLAUD HAMILTON in the chair

Mr. W. A. HAY (the secretary) read the notice convening the meeting. The report of the directors and of Mr. Moses Bawden (the manager) were taken as read.

The Right Hon. Lord Claud Hamilton in the chair.

Mr. W. A. Hay (the secretary) read the notice convening the meeting. The report of the directors and of Mr. Moses Bawden (the meeting. The report of the directors and of Mr. Moses Bawden (the meeting. The report of the directors and of Mr. Moses Bawden (the many remarks, because we have gone very fully into these subjects in the report, and you have all probably read it, and especially that the protein of it which emanates from Mr. Bawden, our local manager, who directs the works. He will be able to give you the most accurate in interpretation, and to answer any questions which any gentleman herdgream may whit to ask with regard to the progress make the progress when the progress when the progress when the conomy. We have been an any subjects of the second of the progress of the progre

an amendment was proposed and put to the meeting and lost, the original reso lution being carried by a large majority. A vote of thanks to the Chairman, directors, and officials closed the proceed-

A vote of thanks to the Chairman, directors, and officials closed the proceedings.

KILLALOE SLATE.—At the half-yearly meeting in Dublin, on Monday (Mr. W. Bredin, J.P., presiding) the report stated that the quarries promised well, but for the two months of the half-year which had elapsed since the closing of the accounts the production had been as much interfered with as it had been on the average of the six months ended June 30; and that although the directors hoped for and expected a profit on the half-year ended Dec. 31, that profit could not in the nature of things be very large. On the working of the half-year instead of there being a small profit, as anticipated, there is an adverse balance of 104, 3s. 11d. The quality of the slate-rock now being opened and wrought upon is excellent. There is an ample demand for all the leading sizes of slates produced, but price remain unprofitably low. Owing to the large development of the Garrybeg quarries it has been deemed indispensable that the secretary's office should be established thereat. Consequent upon this there is a charge against capital for the half-year of 1524. Ss. 7d. The financial position of the company is satisfactory, there being at the period of the closing of the accounts a balance to the company's credit at its bankers of nearly 2000l. The undivided profits amount to 1833. 9s. Out of this the directors recommend a dividend at the rate of 4 per cent per anum, which will absorb \$51. \$s. 4d., leaving 1337. 0s. 8d. to be curied forward to the credit of future dividends. Messra, Bredinjand Bolton, two of the directors, retire by rotation, but offer themselves for re-election, as do the auditors, Messra. Comyne and Sutcliffe.—The Chairman, in reply to a shareholder, who asked whether they could not employ a larger number of hands to increase the output, the Chairman said that additional hands could not be had, as they were all leaving the country, selling their little interests, and going to America and elsewhere. A dividend at the rate of 4 per cent

Chairman terminated the proceedings.

EAST BOTALLACK.—At the four monthly meeting, on March 21, the accounts showed a debit balance of 2621. 18s. A call of 3s. 6d. per share was made. The tin sold, 5 tons 8 cwts., at an average of 50l. 17s. per ton, was from the adit and 10 fm. levels, average yield 85 lbs. tin to the ton of stuff. It was stated that the call would clear off all the debts, and test some new points in the property. It was resolved to apply for temporary remission of dues and rents. Capt. Thos. Trahair, in concluding a special report upon the property, says:—I still adhere to the opinion expressed in former reports, that a cross-cut should be put out south from the bottom of the engine-shaft on the old lode, or (say) 50 fms. deep, to intersect the two lodes known to be in that direction, and within a distance of 20 fms. from the present bottom of the shaft. As these were the points for which the mine was originally started I certainly think they should be proved at an early date. As our property is so extensive (nearly 300 screen), and includes the continuance of the famous Balleswidden lodes, I would recommend the committee to test their value (at the intersection) by the sinking of a small shaft to the north-cast of our present operations, and putting out a cross-cut, which can be done for a small sum. This is to my mind one of the best points in our property.

LINARES LEAD MINING COMPANY.

LINARES LEAD MINING COMPANY.

The report of the directors prepared for presentation at the meeting on Thursday next states that the operations carried on at the mines for the half-year ended Dec. 31 have resulted in a profit of 21481. 11s. 8d. This is less than that shown at the last general meeting, but considering the lower price of lead which has prevailed the profit will no doubt be regarded as satisfactory. The productiveness of the mines has in no way diminished, and the report of the superintendent and mining agents shows that the reserves of discovered ore are again estimated at 5450 tons, although a good rate of extraction of ore was maintained during the half-year. At the Poso Ancho Mine Peill's shaft is now being sunk from the 135 fm. level towards a 155, and judging from the favourable appearance of the lode in the bottom of the mine, it is hoped that the opening up of this additional 20 fms. of ground will largely increase the available resources of ore. A communication has now made between Peill's and Warne's shafts by means of a long cross-cut: this will much reduce the cost of working, as Peill's engine will in tuture pump the water, from both shafts.

There has been a decided improvement in the productiveness of some of the principal levels of the Quinientos Mine since the last general meeting, and the superintendent and mining agents report that the prospects at this mine are highly satisfactory. The explorations at the Majada Honda Mine having proved that the lode is not sufficiently productive to be worked to advantage during the continuance of the present low price of lead, operations there will shortly be suspended.

Everything is going on steadily and well at the smelting-works. The carriage

the continuance of the present low price of lead, operations there will shortly be suspended.

Everything is going on steadily and well at the smelting-w rks. The carriage and shipping have also been conducted with the usual regularity. The balance at the credit of the profit and loss account on Dec. 31 was 2379. 16s. 3d., out of which the directors declared a dividend of 3s. per share, just paid, 2250d., leaving a balance to carry forward of 123t. 16s. 3d. The directors have with very great regret to report the death of Mr. Richard Taylor, the manager of the company, which occurred in December last. The directors have appointed Mr. John Taylor, of Messre. John Taylor and Sons, to fill the vacancy.

FORTUNA COMPANY.

The report of the directors prepared for presentation at the meeting on Thursday next states that the past half-year has been a period of anxiety to the directors in consequence of the continuous decline which has taken place in the price of lead. The mines fortunately have yielded well during that period, and hence a profit has been made of 39531, 12s. 10d. This is smaller to the extent of 3481, 13s. 3d. than the profit for the previous six months, but the falling off is much less than might have been expected. In realising this profit no diminution has occurred in the quantity of discovered ore in reserve. This is again reported to be \$700 tons, as shown by the accompanying reports from the superintendent and mining agents.

quantity of discovered ore in reserve. This is again reported to be yrou ton, as shown by the accompanying reports from the superintendent and mining agents.

At the Canada Incosa Mine Lowndes' shaft is being sunk below the 100 on the course of the lode, and the more important levels at this mine are being rapidly extended. There is every probability, therefore, that the productive power of the mine will be maintained. The mine of Los Salidos continues to open out well, and the directors are now watching with interest the result of driving the 175 east of Taylor's engine-shaft, as this level will soon get under the point where the lode was productive in the upper levels.

Much valuable ore ground continues to be developed at the San Anton Mine, but at San Francisco the regular exploratory work has been suspended, and the principal places in this mine are being worked by tributers. This system of working has been adopted on a more extended scale at all of the company's mines during the half-year, and it has been attended with favourable results. The report of Mr. Charles Tonkin on the smelting operations furnishes the customary details in regard to the quantity and quality of the ore treated, and the produce obtained. The quantity smelted was much larger than for the previous six months, but the other details of the report do not call for special comment. The sudited accounts show that the balance at the credit of the profit and loss account on Dec. 31 was 42001. 133. 10d., out of which a dividend of 3s. 2d. per share has been declared, and just paid, 3358. 6s. 8d.; and there has been placed to reserve fund 2002. 4 1534. 6s. 3d.; the balance to be carried forward being 42l. 7s. 2d. The office of manager rendered vacant by the lamented death of Mr. Richard Taylor has been filled by the appointment of Mr. John Taylor, of Mesars, John Taylor, and Sons. Mr. Richard Taylor, with his brother the late Mr. John Taylor, alled the office of manager from the very commencement of the undertaking, and his advice and counsel

ALAMILLOS COMPANY.

The report of the directors prepared for presentation at the meeting on Thursday next states that a profit of 36181. 18s. 2d. has been made on the past six months' operations. The amount as might have been anticipated is less than that shown on the previous half-year's

been anticipated is less than that shown on the previous half-year's account, seeing that lead has fallen so considerably in price, but the produce from the mines has been good, and the reserves of ore have been maintained, and hence the company is in a favourable position to reap the benefit of better prices. The method of working some portions of the mines upon tribute has been continued, and has been attended with favourable results.

In the regular working of the mines San Victor's engine-shaft is about to be sunk towards a new level, and as the present deepest level at that shaft, the 30 fms., has been driven through a lode which has been almost uniformly rich during the past half-year, there is reason to hope that the 90 when reached will also be found productive. Mr. Shaw's report on the smelting and dis-sliverising operations furnishes full particulars in regard to the results obtained during the past six months. These do not call for special remark, but it is probable that the cost of working will be someward reduced during the present.

past six months. These do not call for special remark, but it is probable that the cost of working will be somewhat reduced during the present half-year, 3s the supply of coal has been contracted for on more favourable terms than here-tofore.

The balance-sheet shows that the amount standing to the credit of the profit and loss account on Dec. 31 was 37891. Cs. 4d., out of which the directors have declared a dividend of 2s. per share, just paid, 35001, and they have placed to the reserve fund 1001.—35004.; leaving a balance to be carried over of 1891, 0s. 4d. The death occurred in December last of Mr. Richard Taylor, who in conjunction with his brother, the late Mr. John Taylor, from the very commencement of the company, so aby filled the office of manager. The directors have appointed Mr. John Taylor, of Messrs. John Taylor and Sons, as his successor.

THE SPITZKOF (LYDENBURG) GOLD MINING COMPANY.—The directors state that Mr. J. A. Stone, of California, the mining engineer appointed by them to take the management of that property, sailed yesterday on the ss. Norham Castle for Durban, the mining tools, quicksilver, and part of the machinery having been sent on a previous steamer. From an examination and analysis of the ores obtained by Mr. Pascoe, M.E., during his examination of the property, and brought home by him, Mr. Stone has formed, it is understood, a very favourable opinion of the prospects of immediate returns being obtained. turns being obtained.

INTERNATIONAL HEALTH EXHIBITION, LONDON.—The Exhibition will be opened by the President, his Royal Highness the Prince of Wales, on Thursday, May 8, at 3 P.M.

FOREIGN MINES.

FOREIGN MINES.

ALMADA AND TIRITO CONSOLIDATED SILVER.—R. Harris, Feb. 16:
Mina Grande 100 Lode: Stope in back of tunnel is now yielding 8 tons per lineal fathom.—Stope in back of the 12: We have seen the lode at no point so regular in its yield as this stope has proved. The stope throughout its entire length earries 4 ft. of ore, which we value at 16 tons per lineal fathom. No. 1 winze below the 12 was sunk 6 ft. during the fortnight. The bottom shows 1 ft. of milling ore, which we estimate at 4 tons per lineal fathom. No. 2 winze below the 12 was sunk 5: ft. The bottom is in 3 ft. of milling ore; we estimate its yield at 12 tons per lineal fathom. At No. 3 winze below the 12 the bottom shows 6 ft. of solid ore, which we estimate at 24 tons per culte fathom; 11-4 ft. was sunk during the fortnight. This winze is being sunk in the heart of the bunch of ore which we encountered on the western side of the drift. We were very anxious to prove this bunch in height, and accordingly started a cross-cut directly over this point at Tunnel level. After driving a few feet we struck 6½ ft. of solid ore, which is of higher grade than this lode has previously shown. (Assay from now cross-cut at Tunnel level 71-46 or 17-46 or 16-46 drift, and if this bears grit we will commence another cross-cut at the 40 ft. drift, and if this bears grit we will commence another cross-cut at the 40 ft. drift, This discovery promises to be of importance. Cross-cut west of the 12 was a short cross-cut driven to avoid a piece of circuitous drifting which was very inconvenient for tramming the ore to the shaft. We have now a direct trammond from the cross-cut to the shaft. San Juan stope carries 3 ft. of milling ore, and is yielding 12 tons per lineal fathom.

OLLIFORNIA GOLD.—Alfred Rickard, Feb. 23: The 1500 ft. level east is in 243 ft., and the 1500 ft. level west is in 221 ft. On each side of the shaft the drifts have apparently got through the main body into ground somewhat irregular. This ore body is fully 350 feet long, and forms altogeth

east the pay is 15 in, wide and of good grade, yielding 2 tons of milling and 1 ton of smelting ore per fathom. At the Hidden Treasure the 1400 ft. level east is being got in order, and will be pushed ahead to connect with the California workings.

— March 27: Telegram: Mill run, 325 tons; yield, \$2200 (440L). Second mill started. Hidden Treasure Mine putting out good ore.

CORPORATION OF SOUTH AUSTRALLAN OLD 12 to 181. As Capt. Bryant has been in Adelaide during the past week that family up to live at the mine no progresh of the past week that the committee hope that mover from Satita well, sufficient to dress 18 hours daily, to see a great improvement in the output of ore. At the committee meeting on Feb. 11, Capt. Bryant reported that the vugh had been holed to, and on examination is found to be 42 ft. long, and in some places about 18 ft. wide, the sides opening out into numerous vughs. In one place the depth of water was found to be 11 ft., and from water to back of vugh an additional 9 ft. In one place from where the water has drained 100 bags ore, coated sulphurets, and malleable copper, of (say) \$5 to 50 per cent. were shovelled out, and Capt. Bryant is of opinion that assoon as the water is taken out of vugh a large quantity of similar ore will be found settled in the bottom. The water in the vugh is saturated with copper, A splendid block of ground has been opened up now that communication has been frected between the from date in the vugh is saturated with copper, A splendid block of ground has been opened up now that communication has been frected between the from date in the vugh is a saturated with copper, A splendid block of ground has been opened up now that communication has been frected between the from the 30 ft. Bryant believes that this vugh is the source of the ore above it in the pipe followed in diagonal winze, and is the origin of the deposits at surface. The driving of the 70 south, and sinking of winze below the 60 south will be suspended, and the men transferred to stope a triangular

advanced 3 it., total 483 ft. It is showing about the same as it did last week, with feeders of quartz and ore. It is very hard, slow working, owing to the solid firmness of the rock. I like the appearance in this diving much better than that of N. I.

HOOVER HILE GOLD.—March 5. Gailimore: The ground in the bottom of the shaft is getting somewhat easier, but is letting out more water than heretofore, in consequence of which progress in sinking during the month has been slow. The wings telow the 170 south is down 27½ ft. Both the shaft and winze are looking well in the bottom.—Hawkins': We have stoped a considerable amount of ore in the 70, east of Hawkins' shaft, during the month; although there have been some bunches of good ore, it has been, on the whole, of low grade. South of the west cross-cut at the 135 we are continuing to follow some stringers of ore, but have not as yet discovered any ore worth milling. An advance of 25 ft. has been made during the month. Driving north-west from the open-cut shaft an advance of 51½ ft. has been made, and we have cut what appears to be a body of ore of some importance.—Mill: During the month 548 tons of ore were crushed, yielding 195 35 cs. of gold. Five days ago we cut a feeder of water in the Gailimore shaft, which for a while rose on the pump and holst; it absted somewhat, and in about a day we got it down again. On resuming work, and making a fresh sink, we cut more water again, which rose rapidly in the shaft. The small pump and the holst have been running continuously ever since, and although we have not got it all yet, it is not so quick as it was, and we have been forking the water slowly the last two days, and expect to get it down to-night. The holst being occupied with the water, we have not been able to raise any of the ore broken in the winze or stope. Seeing that the deeper we get the quicker the water will be, when it drove us out of the bottom the second time, I determined to get a sinking pump, and wired the Deane Steam-Pump Company to ship one as soon

width, has been discovered. There has been some delay in getting the mill into steady working order, caused by various small defects in the new plant, which have now been remedied.

INDIAN OONSOLIDATED.—March 2: Superintendent's Report: In submitting my report for the month of February I have to refer to the very important strike made in No. 2 adit.—Grove Section; In my last month's report I stated that the contractor was very fortunate in cutting a slide which carried him to what appears to be the footwall of a reef. From the footwall we cut into quarts of a white and valueless appearance, which we followed for some distance, until on the night of the 16th we came to a parting in the reef, and then cut a fresh vein of quartz, having a far more satisfactory appearance and very much resembling the quarts we are mining in the upper workings. Up to this date I was very doubtful of this being the reef wrought in the upper level, but from the similarity of the stone we are without doubt on the reef we were in search of. This will place us considerably in advance of the time I saticipated it would take to cut the reef and connect the upper with the lower workings. The following is a summary, &c., of the work done:—Grove Section, No. I Level: In my last month's report I had to draw attention to the narrowing of the quarts this width is reduced to 18 in., although the reef from wall to wall is about 6 ft. wide, with 4½ feet of reef geels and the quartz referred to. This may be a gneissic intrusion similar to one formerly driven through, and on extending the level further we may again come into a stronger body of quartz. Total distance driven from No. I adit 202 ft.—Underhand Stopes: Very little quarts has been mined during the month in the stopes, our work being chiefly confined to breaking up the country overlaying the footwall, and limbering the ground which has been mined as close as convenient to the fare. I am now catting dynn the north end of the stopes, and intend to drive through to No. 3 winze, which will leav

und of sinking it. I am following the footwall in sinking No. 2 wines, which good recovers made, and, if so, by rising from No. 2 did and shining at the same image and another them. To that depth of wisce on the dip, 36 ft. The image and the property of the service of the dip. 36 ft. wines and the service of the dip. 36 ft. wines and the service of the dip. 36 ft. wines and the service of the

in knocking through to our level, is of much briter appearance than the lode in the end; but the strongest branch, resting on capel, the true footwall of the lode, is in our level, and between this and the middle branch there is a floor of quartz 2 ft. in thickness. These three branches will be embraced in a stope we purpose commencing at once towards the No. 1 shaft, with the view of increasing the gold-returns. It is greatly to be regretted that we have been unable to complete the new hauling appliances, for at present we possess only a mule whim, which is wholly inadequate for bringing up a supply of stone for the stamps, and that from Holland's shaft, the sinking of which ought to be resumed immediately.

whim, which is wholly management for thinging up a supply of some tor the stamps, and that from Holland's shalt, the slinking of which ought to be resumed immediately.

BUBY AND DUNDERBERG CONSOLIDATED.—March 2: Dunderberg: There are 22 tributers at work, and from 75 to 100 tons of tribute ore ready for slipment.—Home Ticket: There has only been three days' work done in the mine since last report, two days being Italian holidays, and two days shovelling snow off the road, consequently there is little or no change to report. The ore in the stope above the west drift from the west cross-cut continues about 13 in, in width; it is rather low grade. The winreat the end of the south drift, bottom level has been sunk 4 ft. during the week; total 20 ft. The ore in the bottom at present is rather low grade, a very small portion of it only is of sufficient value to call ore. The stope at the end of the south drift, third level, is producing some fair grade ore. No ore shipped during the week. There are 18 tributes at work.—Lord Byron: The tunnel has been advanced 10 ft. during the week; total 20 ft. According to the survey we must be very close to the cave, as the distance given is about completed. Grigg and Co. are extracting some low grade ore from near the bottom of the Valentine shaft.

— Telegram, March 25: 67 tons are shipped, and 53 tons smelted, realising net \$331. The state of the roads still leterferes with shipments of ore.

— St. JOHN DEL REY.—Telegram from Morro Velho (csd United States): Produce 11 days (first division of March), Sofo oitavas, value 1937d.; yield, 2°2 oits, per ton; loss for the month of February, 1400d.; breakage of underground

engine, 72 hours to repair. Increase of killas in eastern section. Quebra Panella pumping-wheel will be at work in a fortnight. Auxiliary hauling-wheel will be

engine, 72 hours to repair. Increase of killas in eastern section. Quebra Panella pumping-wheel will be at work in at work in at fortnight. Auxiliary hauling-wheel will be at work in six weeks.

VICTORIA (LONDON).—Clunes, Feb. 12: Total quarts crushed for the month ending Jan. 30, 2743 tons. Total gold obtained, \$10 oss. 5 dwiss. 12 grs.; average per ton, 3 dwts. 19 grs. Receipts, 1771. 1s. 5c.; four weeks mine costs, 12544. 6s.; profit, 221. 15s. 5d.

UNITED MEXICOAN.—Mr. Hay, Feb. 25: Mine of San Cayetano de la Ovejera: Diamante: Last week we have entered the ground of El Diamante with the frente No. 1 of San Juan west, and I am glad to say that the lode is 220 metres broad, with fair ore ramified over its breadth. Last Thursday we had a carga of very fair ore, which I did not sell in Rescate (public sale), as I want to send it to Duran to have it assayed with this week's extraction. In the frente No. 2 of San Juan the ore in the lode improved gradually until it crossed the boundary line of El Diamante. In the frente No. 2 of San Juan west the lode measures only 55 centimetres in width, and little ore is thrown down. In the frente No. 2 of San Juan east nothing has been found. In the frente No. 3 of San Juan the voin is 65 centimetres broad, and the ore is of a better quality than hitherto. In frente No. 3 of San Juan the width of the lode is 1-20 metres, over which fair ore is ramified, and in pozo No. 4 of San Juan the ore is ramified, and the vein is 180 metres wide. In pozo No. 4 of San Juan the ore is ramified, and the vein is 180 metres wide. In pozo No. 4 of San Juan the ore is ramified, and in pozo No. 4 of San Juan the ore is ramified, and the vein is 180 metres wide. In pozo No. 5 of San Juan the ore is ramified, and the vein is 180 metres wide. In pozo No. 5 of San Juan the ore is ramified, and the vein is 180 metres wide. In pozo No. 5 of San Juan the ore is ramified, and the vein is 180 metres wide. In pozo No. 5 of San Andres the lode is 1-35 metres wide, but the strip of ore is getting narrower

THE COMPOUND ENGINE VIEWED IN ITS ECONOMICAL ASPECT.

ASPECT.

An elaborate paper on this subject, by Mr. R. L. WEIGHTON, was discussed at the meeting of the Institution of Engineers and Shipbuilders in Scotland, on Feb. 26. The paper has already been referred to in the Mining Journal. The discussion is reported in the part of the Transactions just issued. Mr. JOHN TURNBULL, jun, said that at the last meeting he had promised to say something when the subject was again brought up. Since then he had gone carefully over Mr. Weighton's paper, but he was forced to confess that he had risen from its perusal without having received the satisfaction he had looked for, or experienced the pleasure or gained the information which he had anticipated. At the outset of the paper an instance was quoted from a report by one of the boiler insurance information which he had anticipated. At the outset of the paper an instance was quoted from a report by one of the boiler insurance companies, of a compound engine using fuel as high as 6:83 lbs. to the indicated horse-power per hour, from which Mr. Weighton deduced that the mere fact of an engine being compound was no criterion of its economy. That he admitted; but he considered that Mr. Normand, on the last eveinng of the discussion, had met that statement in a very satisfactory way when he said that the fact "that some of the very worst engines had been produced working on the compound principle was no embarrassing argument." Neither it was. He himself when writing on this subject some years ago, took the opportunity of laying down this axiom—" When a high state of efficiency had once been obtained in the perfection of any machine, that same state of efficiency could always be attained if the same skill and care were exercised in the latter instance as in the former. Therefore, although there were too many specimens of bad com-

skill and care were exercised in the latter instance as in the former. Therefore, although there were too many specimens of bad compound engines, that was nothing against the principle."

A more satisfactroy view of the paper was taken by Mr. James Howden, who remarked that one did not require to read much of it before discovering it was an excellent paper, and one deserving careful study. Mr. Weighton, in part of his investigation on the economical use of steam, approached the subject in the only way in which correct or profitable information can be obtained, and that is by the observation of the effect of the use of the steam through one or more cylinders on the heat of that steam. The two chief points to be studied in effecting economy were the conservation and utilisation studied in effecting economy were the conservation and utilisation of the heat of the steam in its passage through the engine. The conservation was the more important of the two; it, indeed, included the other; and that engine in which the heat of the steam was most completely preserved would necessarily be the most economical engine.—Mr. NORMAND said that in the great subject brought before them it appeared to him that some most important tonics were being gine.—Mr. Normann said that in the great subject brought before them it appeared to him that some most important topics were being completely laid aside. The importance of preventing the condensation of steam during its expansion, as an element of economical working, either in single or double cylinder, or treble cylinder engines, was acknowledged by all, just as that of at first producing dry steam in the boiler. He had known engines and boilers, otherwise perfect, which were rendered almost useless from the single fact that the surface of chullition was reduced to such a small extent that the surface of ebullition was reduced to such a small extent that the surface of ebullition was reduced to such a small extent that the rate or speed with which the steam was going through the surface of the water was such as to carry away with the steam a great proportion of water. This water implied in itself but a small loss of heat. It might be even said that this heat could be of some useful effect in the expansion; but it was most conclusively settled that a very small percentage of water mixed with steam caused that steam to be a great properties of its effect. He might say that

useful effect in the expansion; but it was most conclusively settled that a very small percentage of water mixed with steam caused that steam to lose a great proportion of its effect. He might say that in engines working with a great deal of expansion 5 per cent. of water mixed in the steam would reduce its efficiency by 15 per cent. and that 10 per cent. would reduce it by 40 or 50 per cent. And when they got to 15 or 20 per cent. of water in the steam there was not any more useful effect to be got.

This loss of power, continued Mr. Normand, from the moist state of the steam, had been alluded to by Mr. Weighton himself in his paper. He had only neglected to draw the conclusions, which were manifestly—to prevent all loss of heat from those deposits of water on the metal of the cylinders, and even upon the surface of the piston itself, as the whole of the surfaces might then be considered as an increased dead space, as chambers of useless expansion or porous matter ready to take away a great part of the steam, which was further given up to the condenser without any useful effect. Replying to the whole discussion, Mr. Weighton said that unfortunately abridgment of some of the subjects of his paper had interfered with its consecutiveness in some particulars. His object was not to compare the simple with the compound engine, but to compare different designs of compound engines with each other; and the simple engine was mentioned merely to show that, while compound engines varied in economy, some of them varied to such an extent as to fall below the simple type in efficiency. The waste accruing from defective condition or bad workmanship did not come within the scope of the paper at all, it was only that waste—and who would say how much of it there might have been in the first instance—which arose from mal-design. The utility of steam jacketing was by no means apparent from the instances adduced by Mr. Turnbull. —which arose from mal-design. The utility of steam jacketing was by no means apparent from the instances adduced by Mr. Turnbull. If the only effect of jacketing were to take from one cylinder what it added to the other, it was a wasteful device, all the steam condensed in the jackets being thrown away. Somewhat more of the principles of thermodynamics applied to the subject would doubtless have been desirable, but he was afraid the result would have been to overload a very practical subject with a deal of theoretical detail. As regarded the desiderated even drive upon the crank shaft, that of course was impossible with engines working expansively. All that could be done was to see that the maximum loads were not great as to destroy the bearings, and that the average turning move-ments were as nearly equal as possible for the two cranks.

On the motion of the PRESIDENT, a hearty vote of thanks was then

GABDEN WORK.—The new weekly which commenced its career on Wednesday under this title is well and carefully edited, embeltished with admirably executed illustrations, and furnishes information

PROVINCIAL STOCK AND SHARE MARKETS.

Connish Mine Share Marker.—Mr. S. J. Daver, mine share-ealer, Redruth (March 27), writes:—Dolcoath has almost entirely conopolised dealers' attention in our market this week, and price as risen 4. East Pools advanced 2 without much dealing. To-day colcoath, East Pool, South Frances, Wheal Agar, and Wheal Basset Dolcoath, East Pool, South Frances, wheat Agar, and wheat bases close firm. Subjoined are the closing quotations:—Carn Brea, 2% to 2%; Cook's Kitchen, 10 to 12; Dolcoath, 71% to 72%; East Pool, 40% to 41%; Killifreth, Ss. to 7s. 6d.; New Cook's Kitchen, 1 to 14%; New Kitty, 1% to 1%; South Condurrow, 8% to 9; South Crofty, 2% to 2%; South Frances, 8 to 8%; Thorroft, 3% to 3%; West Basset, 2% to 2%; West Frances, 7% to 8%; West Kitty, 12% to 12%; West Poldre, % to 1; West Poldre, % to %; West Seton, 3% to 4%; Wheal Agar, 12% to 13%; Wheal Basset, 3 to 3%; Wheal Goates, % to %; Polberro, 1% to 1%; Trevaunance, 2 to 2%; North Bass, 2s. to 4s.

Asy, 2s, to 4s.

Messrs, Albort and Wickert, stock and share brokers, Redruth (March 27), ite:—A good business has been done this week in East Pools and Dolcoaths, yers have predominated, and prices close at a material advance. West Frances uth Frances, West Kitty, and Wheal Agar have been in request, but sellers shy. Closing quotations herewith:—Camborne Vean, ½ to ½; Con Brea, to 2½; Cook's Kitchen, 10 to 11; [Dolcoath, 70 to 72; East Blue Hills, to 5s.; East Pool, 47½ to 4; New Cook's Kitchen, ito 2; New Kitty, 1½ to 2; North Busy, 3s. to 5s.; South Crofty, 2 to 2½; tuth Wheal Frances, 8 to 3½; Theorot, 3½ to 3½; West Basset, 2½ to 2½; est Kitty, 12½ to 12½; West Poldice, ½ to ½; West Frances, 7½ to 8; est Kitty, 12½ to 12½; West Poldice, ½ to ½; West Frances, 7½ to 8; est Kitty, 12½ to 12½; West Poldice, ½ to ½; West Frances, 7½ to 8; est Kitty, 12½ to 12½; West Poldice, ½ to ½; West Frances, 7½ to 8; est Kitty, 12½ to 12½; West Poldice, ½ to ½; West Frances, 7½ to 8; South Condurrow, 8½ to 8½; West Seton, 4 to 5.

Mr. M. W. Rawder, Liskeard (March 27), writes:—The mining market

5; Wheal Ritty (St. Agnes), % to 2; Wheal Feevic, 2% 5: 4; Wheal Ritty (St. Agnes), % to 24; Wheal Sevic, 2% 5: 5- The mining market presents a steady improvement with a greater degree of firmness than has been experienced for a considerable time past, holders of stock evincing more confidence in the future of tin. At New South Caradon meeting held on the mine yesterday a call of 1s, per 10,000th share was made. Subjoined are the closing quotations:—Anderton United, 3; to 3; Bedford United, 1½ to 1½; Cara Brea, 2½ to 2½; Cook's Kitchen, 10½ to 11; Dolcoath, 88% to 69; Devon Consols, 3½ to 3½; East Caradon, ½ to 4; East Pool, 39½ to 49; Glasgow Caradon, ½ to ½; Gardon, ½ to ½; East Caradon, ½ to ½; Suth Cook's Kitliftel, 3; to ½; Off Gunnislake, ½ to ½; Old Shepherds, 1½ to 1½; Phoenix United, 1½ to 1½; Prince of Wales, ½ to 3; South Croadon (Limited) fully paid, ½ to 1; South Condurrow, 8½ to 9; Suth Prances, 7½ to 8; Theroft, 3½ to 3½; West Basset, 2½ to 2½; West Caradon, ½ to ½; West Prances, 7½ to 8; Wheal Ages, 13 to 13¼; Wheal Crebor, ½ to ½; Wheal Maya, 13 to 13¼; West Crebor, ½ to ½; Wheal Maya, 13 to 13¼; Wheal Basset, 3¼ to 4; Wheal Crebor, 1½ to 13; Wheal Grenville, 5 to 5½; Wheal Kitty, ½ to ½; Wheal Agnes, 5 to 7a, 6d.; Wheal Uny, ¾ to ½.

—Mr. Jour Carren, mine sharedealer, Camborne March 27), writes:—In

Kitty, % to %; Wheal Jane, 5s. to 7s. 6d.; Wheal Uny, % to %.

— Mr. John Carter, mine sharedealer, Camborne (March 27), writes:—In the share market Dolcoaths, South Frances, and East Pools are chiefly in favour, and prices have advanced. Other shares remain dull. Subjoined are the clossing quotations:—Cart Brea, 2% to 2%; Cook's Kitchen, 10% to 11%; Dolcoath, 70 to 72; East Pool, 4) to 141; Killifreth, 8s. to 10s.; New Cook's Kitchen, 1 to 1½; New Kitty, 1½ to 1¾; South Condurrow, 8% to 8¾; South Crofty, 2½ to 2½; South Frances, 8¾ to 8½; South Crofty, 2½ to 2½; West Frances, 7½ to 8; West Kitty, 12½ to 12½; West Sacet, 3 to 4½; West Policle, 4% to 5½; Wheal Agar, 12½ to 13; Wheal Basset, 3 to 3½; Wheal Grenville, 4% to 5½; Wheal Kitty, ½ to ½; Wheal Uny, ½ to ½; Wheal Pervor, 1 to 1½.

Mangusswed. Masses Logence Donate Donate Dolcoath.

Scton. 3% to 4%; West Poldice, 4s. to 5s.; Wheal Agar, 12% to 13; Wheal Baset, 3 to 3%; Wheal Grenville, 4% to 5%; Wheal Kitty, ½ to ½; Wheal Iny, ½ to ½; Wheal Peevor, 1 to 1½.

MANCHESTER.— Messrs. JOSEPH R. and W. P. BAINES, sharebrokers, Queen's Chambers, Market-street (March 27), write:—Throughout the week the tone all round the markets has been baoyant, money continuing cheap, and some expectation of the Bank rate being again reduced, having a share in the upward tendency. Prices have further been strengthened by stock being "short" at the account concluded to-day, and this, with the continuance of fine weather and some good traffic returns, has resulted in putting prices up in most cases, home railways all participating more or less in the advance. Foreign funds, with slight exception, have moved in the same direction. Egyptians have changed but fractionally, and are a little irregular, the Unified being higher, whilst the Preference are easier, Daira Sanieh showing no change on the week.—Higher: Egyptian Unified, ½ to ½; Russian, ½; Spanish, ½; and Mexican, Three per Cont., ½.—Lower: Peruvian, ½ to ½, and Egyptian Preference, ½. Mexican rails have, as usual, come in for some wide fluctuations; but the balance of rise and fall for the week is favourable comparison of prices, showing them alo at 2½ up since last Thursday. The traffic return, though a decrease of 540 L, contributed to the advance figures, having gone better since its announcement. Notwithstanding the occurrence of the fortnightly settlement, the amount of business done in miscellaneous investments reaches a good total, and taken all together prices realised show a generally steady tone to pervade the markets for the several classes composed. The feature of the week appears to be the improvement, though slight, in the business doing in coal, iron, and mining shares, which is in excess of many recently past weeks.

BANES keep good, with a moderate business doing—Higher: National Provincial, New, ½: Lancashire and Vorkahire, ½, to 5½; Bank of

SCOTCH MINING AND INDUSTRIAL COMPANIES SHARE MARKETS.

-Mr. J. GRANT MACLEAN, stockbroker and ironbroker (March 27), writes:—During the past week business has been quiet, but prices are steady owing to the favourable weather and the easy state of the money market. The state of trade is unaltered, although the financial atmosphere is clearer after recent failures. in most cases are very low, but a stimulus is still wanting to bring about very. Transactions are now being entered into for the new account

(April 9). In shares of coal, iron, and steel companies the principal alteration is the decline in Marbellas' to 44s. Cardiff and Swansea are at 50s.; Chapel House, 6s.; L'ynvi and Tondu Ordinary, 70s.; ditto (Preference), 52s. 64; New Shariston (Preference), 6%; and Wigan, 32 to 34.

In shares of foreign copper concerns prices are steady. Tharsis have been sold from 65; 8, 6d. to 68; 8.6d. Arizonas have declined from 15s. 9av. be of 15c. Carada Copper about 7s.; Corporation of South Australia, 2s. 6d. to 5s; and Yorke Peninsula, 7s. to 4s.

from 62. 7s, 6d. to 61. 8s, 64. Arizonas have declined from 15s, 9d. to 11s. 6d. Canada Copper about 7s.; Corporation of South Australia, 2s, 6d. to 5s; and Yorke Peninsula, 2s. to 4s.

In shares of home mines there has been less business doing. D'Eresby Mountain is making good progress, and when the shaft is completed they expect to make good profits. The agent's report of Leadhills states they require nothing more now to make it a success but a better price for jeglead. Craignant Bitch offered. Anderton are at 12s, 6d, to 15s.; Camborne Vean, 5s, to 7s.; Devon Consols, 60s, to 65s.; East Craven Moor, 1s. 3d.; East Van, 4s. to 6s.; Great Laxey, 10% to 11; Halkyn. 6s. 3d. prem.; Killifreth, 5s. to 7s.; Mounts Bays, 4s, to 8s.; Few Terras, 7s. 64. to 10s.; North Blue Hills, 1s. 3d.; Old Shepheris, 19s, to 21s.; Phoenix United, 17s. 6d. to 22s. 6d.; Polrose, 2s. 6d.; Sortridge, 5d.; Smith Orefty, 40s. to 60s.; South Penstruthal, 4s. to 6s.; Tregontrees, 1s. 2d. 5s. 9d.; Immar, 4s. to 5s.; West Crebor, 1s. 6d. to 2s. 6d.; West Crebor, 1s. 6d. to 2s. 6d.; Wheal Crebor, 30s. to 35s.; and Wheal Grenville, 5t. 55.%

\$ to 5\%.
In shares of gold and silver mines prices are steady. United Mexicans have improved from 9\% to about 11, on salisfactory reports from the mines. Richmonds lower, at \$23. 6d. Montanas fluctuated between 65s. and 70s. Balkis, 2°s. to 20s.; California, 12s. 6d. to 13s. 6d.; Cankim Bamoo, 6s. to 8s.; Frontino, 19s. to 21s.; Gold Coast, 3s. 3d.; Gold Hills, 1s. 3d.; Guines Coast, 1s. 6d. to 2s. 6d.; Kapanga, 3s. 6d. to 4s. 6d.; Kohinoor, 6s. to 7s.; Lisbon-Berlyn, 5s. 6d. to par; Organos, 18s. to 13s.; Silver Peak, 7\%d.; Tacquah, 2s. 6d.; Tecoma, 2s.; and Victoria, 12s. 6d. to 12s. 6d.

In shares of miscellaneous companies the principal business has been in Nobels,

and Victoria, 12s. 6d. to 12s. 6d. In shares of miscellaneous companies the principal business has been in Nobels, which improved from 20 to 23, and are now about 22; their dividend has been announced at 17½ per cent., which compares with 20 per cent. last year. Home Mines Trust, 14s. to 15s.; Lawes' Chemicals, 5 to 5½.

EDINBURGH.—Messrs. Thos. MILLER and Sons, stock and share brokers, Princes-street (March 26), write:—There has been an improved for home railways since last report. Most of the Scotch stocks are now quoted ex div. The market for Canadians has been very weak, and a heavy fall has taken place in Grand Trunk stocks. Americans als. have given way. Is bank stocks there has a arcely been any change. North British and Mercan ille Ingurance shares have 0 on in demand,

and have risen from 20% to 27. In oil shares Young's have risen from 10% to 10%; Broxburn from 27 to 27%; Dalmeny have receded from 22% to 22%; Lanark from 5% to 5%. A large business has been done in Midlothian, which after many fluctuations stand at 8%, as against 8% a week ago. Westfield have receded from 11% to 10, Arizona Copper have had another fail from 15s. 6d. to 12s. Fife Coal have gone from 10% to 10, Mason and Barry from 12 to 11%.

IRISH MINING AND MISCELLANEOUS COMPANIES SHARE

MARKET.

CORK.—Messrs. J. H. CARROLL and SONS, stock and share brokers, South Mall (March 27), write:—Markets were dull to-day. Great Southerns changed hands at 115½ to 115½, and Midlands at 81½ to 81½. Great Northerns, Wicklows, and Waterford and Limericks unaltered. Bandons unchanged. Bantry Extension shares buyers at 10 ex div. No change in Bank stock or Provincials. National were done at 24 9-16ths to 24½, and Hibernians at 25. Nothing done in Munsters. Alliance Gas shares remain 19, and Cork Gas 7½. Gouldings sellers at 9. Levys, 6½. Steamships wanted at 16½, and Packets offered at 11½. Lyons and Co. shares, fully paid, on sale at 6½, and the 4½, paid shares at 5½. Dalys unchanged. Cork Refreshment Room shares offered at 1, and Cork Commercial Buildings at 47. Brewery shares were asked for at 4, and the Debentures changed hands at 97. Lyons and Co. Debentures, 102. Harbour Board Debentures wanted at 102.

Mining Correspondence.

BRITISH MINES.

ANDERTON TIN.—W. J. Bowhay, March 28: We are pushing on with all possible energy. The lode in the 20 below adit, east of the cross-course, is holding good, and yielding very rich tinstuff for the stamps. In stoping this part we are taking down rocks of rich tin, more than a man can tumble, and sending up splendid stuff. On the west of the cross-course we are pushing on with all speed, but our progress is not so fast here as I should like owing to a hard floor of spar in the end. We are in 3 fms. going north, and I hope it will become easier as we get under the winze in the adit. Water is coming from the end, and I am well pleased with the prospects of improvement here. We are busy dressing tin, and I shall have a good parcel for the market in 10 days or a fortnight. All the machinery is working satisfactorily, and everything going well forward.

dressing tin, and I shall have a good parcel for the market in 10 days or a forfnight. All the machinery is working satisfactorily, and everything going well forward.

BEDFORD UNITED—H. Treaize, March 25: The tribute pitches on the north and Bridge lodes maintain their value, and the several stopes throughout the mine are looking very well.—McCallan's Shaft: We have not yet intersected the lode in the 75, but from indications we are evidently near the lode. In the 52 east and west the lode is very promising; each end is producing saving work for ore. I anticipate the sampling of ore on Friday to be about the same quantity as last month.

BWLOH UNITED.—W. Northey, March 27: To-day I have completed the timbering of the new shaft, and shall at once fix tackle and resume the sinking with full speed on a well-defined lead-producing lode, where we may reasonably expect a great discovery of silver-lead ore. The pumping machinery, &c., are all in good order and working well.

CASHWELL LEAD.—John Peart, March 22: The heading in copper hazel west end, near the drift forehead, contains fair ore; it is looking a little better this week in the top part, and more vein, is worth fully 1 ton of ore per fathom. The drift in copper hazel going east is in the above stratum continues much the same, in places good ore, and in places it is poor, but altogether is worth 1 ton of lead ore per fathom. The drift in copper hazel going east is intoproving; there is a little fluor-spar putting in the vein, and nice pieces of ore, but still very hard. The rise in slatey hazel is about the same as last reported. We have ceased to work this point for the present having put the men into copper hazel form onths.

COLLACOMBE CONSOLS.—W. Skewis, March 27: The engine-shaft is going

work this point for the present having put the men into copper nazel for a few months.

COLLACOMBE CONSOLS.—W. Skewis, March 27: The engine-shaft is going forward very satisfactorily; ground favourable, and of the very best possible description for the production of large quantities of copper ore. The western winze, in the bottom of the 95, is cleaned up 5% fms. The lode standing in the end of the winze is 2 ft, wide, and from which we have broken splendid stones of copper ore; when this winze is cleaned up to the 105 we shall have a fine piece of valuable ore ground to work upon. There is no particular change in the western or eastern ends of the 95. The lode in back of the 40 has much improved in the past week, and the tributers are likely to do well. All the other portions of the works are going on in the usual way, and we are looking forward to increased samplings.

o increased samplings.

COED-Y-FEDW AND PANT-Y-BUARTH.—R. Prince, March 27: The 90 even maintains the value previously reported. The lode in the back is worth 4 ton lead per fathom, and that in the 112 2½ tons; Trevathom's string, ½ ton. n the 112 north driving we have been delayed, in consequence of having to iter and improve the level that has been extended to the Cefu Bechan lode; ut in a day or two we shall be in full work, and good results may confidently be expected.

be expected.

WM DWYFOR AND BRYNARIAN (Brynarian Mine).—J. Davies, March 24:
The lode in the level driving east from boundary cross-cut has improved for the last few feet. It contains a little copper and lead. We are driving on the south ide of the lode.

OWN DWYFOR AND BRYNARIAN (Brynarian Mine).—J. Davies, March 24. The lode in the level driving east from boundary cross-cut has improved for the last few feet. It contains a little copper and lead, We are driving on the south side of the lode.

DEERPARK.—T. Cocking, March 26: The lode in the rise in the back of deep dait is improving; good stones of copper ore now being broken. I believe as I stated in my last report a good discovery of copper will be met with soon, as we have every indication of it.

D'ERESHY MOUNTAIN.—J. Roberts, W. Sandoe, March 26: In the rise at No. 5 we have got up shout 3 ft. during the past month. The lode in that time has very much improved both in appearance and value, and is worth from \$5 ton, to 1 ton to the fathom. The ground is also getting, and is reported to the fathom. The ground is also getting, and is the present moment is 9 fms. 4 ft. 5 in. below the No. 4 level, and we calculate at the present rate of sinking and rising that we shall get a communication in a month from this time. The lode in bottom of the shaft is not looking quite so well as it has been, but there is still a mixture of lead through the lode. The shaft from surface, owing to the hardness of the ground, the quickness of the water, and the great depit to draw the stuff, lean not made so much progress as formerly, but since the blasting of deep holes in the bottom the water is much less, and we hope that the sinking will be smore expeditious, and we expect to get the communication opened in a short time. We are weighing off the blende to-day. The state of the state

to something good soon. The 99 west is suspended for the present, and the men put to stope in back of the level; these stopes are worth from 8% to 10% per fm. We set our usual tribute pitches on Saturday last; there is very little change in either—producing about the usual quantities of ore. All our machinery is in good working order, and all points of operation being pushed on with as little delay as possible.

either—producing about the usual quantities of ore. All our machinery is in good working order, and all points of operation being pushed on with as little delay as possible.

GORSEDD AND MERILYN.—W. T. Harris, March 27: In the 70 east the lode is 1½ ft. wide, and gradually improving, now worth 10 owts, lead ore per fathom; its composition is really good. The pitch is also improving for lead, and the men working with increased energy. We have a parcel of sead ready for sale to-morrow, and also preparing a parcel of blende.

GREEN HURTH.—J. Polglasse, March 20: The vein in the 44 end north is now worth 2 tons per fathom. No. 1 stope in the 44 end north is worth 2 tons per fathom. No. 3 stope in the 44 end north is worth 5 ton per fathom. No. 3 stope in the 44 end north is worth 5 tons per fathom. No. 4 stope in the 44 end north is worth 5 tons per fathom. No. 4 stope in the 44 end north is worth 6 standage level is worth 3½ tons per fathom. The vein in 30, north of heave, has been during the week worth from 3 to 4 tons per fathom, now worth 2 tons per fathom, a very splendid lode. We have completed the 200 tons parcel of lead to-day. Dressing going on as usual.

HEALEYFIELD.—J. Trelesse, March 21: The contractor will complete the driving of the cross-cut from the Whitwell shaft to the Derwent level this morning. It is driven back on the Fell-thoy limestone, and the gradient of the cross-cut is more than we calculated on, owing to having intersected several strong strings, which have thrown up the west check at every one met with. According to instructions I have set a contract to Mr. Mason to drive 5 fms. on a strong string, which is inclining towards the main vein. This string when cut in sink-ing the shaft produced some good samples of galena ore, and is well worth trying before we get the pumplog machinery, and resume sinking to the lead treasures below. The tribute pitches in the mine are without change. Dressing going on regularly.

sures below. The tribute pitches in the mine are without change. Dressing going on regularly.

HINGSTON DOWN.—T. Richards, March 26: In the 52, east of the engine-shaft, there is no material change; the lode is composed of capel, quartz, mundic, &c., and a little copper ore intermixed. The south cross-out towards the No. 2 lode is extended 18% ft., and fair progress continues to be made.

KIT HILL GREAT CONSOLS.—Isaac Richards, March 27: At the tunnel level ground continues favourable, and the distance driven during the past month is 9 fms. 3 ft. 6 in., making the total distance 254 fms. 1 ft. 2 in. In the north engine-shaft sinking below the 88, the lode is fully 6 ft. wide, composed of capel, quartz, peach, mundic, prian, and a little tin ore, a most promising lode. The distance sunk during the past month is 2 fms. 1 ft. 3 in., making it 9 fms. 5 ft. 3 in. below the 68. In the 83 east and west the lode is from 4 to 5 ft. wide, also of a very promising character, and yielding a small quantity of tin ore. The distance driven during the past month is east 2 fms. 0 ft. 9 in., and west 2 fms. 0 ft. 3 in., not west 2 fms.

engine-mant sinking only the set, the rode is thinly at a work promising lods. The quarties peach, number, prinn, and a little tim ore, a most promising lods. The fit of the set of a very promising character, and yielding a small quantity of the fit. St. 31 in below the \$3. In the \$2 cast and west the lode is from 4 to 10 or 5 ft. 3 din below the \$3. In the \$2 cast and west 2 fms. 0 ft. 9 in, and west 2 fms. 0 ft. 9 in, and west 2 fms. 0 ft. 3 in. below the \$3. The ground in the 20 cross-cut. Military st. 10 cast 10 cast

NORTH BLUE HILLS.—S. Bennetts, March 26: There is not much change to notice in the iode in the adit west end. A shallow adit shaft will be forthwith cleared up to lay open another tin lode a few fathoms north of the one now being driven on.

NORTH BUSY UNITED.—John James, March 27: The ground in the crosscut at the 15, driving south from Vivian's shaft, is most congenial for mineral, and is now letting out water freely. We have about 2 fms. more to drive to intersect the first copper lode, which will be done with all dispatch. The lode in the 15 west is small and poor at present. The lode in the 15 cast is disordered by the cross-course; for the last 6ft. driven the lode has produced some splendid stones of copper ore and tin, and I think when the lode gets away from the influence of the cross-course we shall have an improvement. In the rise in the back of this level the lode is 18 in, wide, producing good quality tinstone.

NORTH GREEN HURHI.—Jas. Polghase, March 20: There is nothing of importance in the deep cross-cut calling for remark. The voin in the south level from deep adit keeps its course very regularly. The adit level in the new property is much the same in appearance.

NORTH PENSTRUHHAL.—S Davey, Wm. Poikingborne, March 27: Setting Report: Highburrow shaft to sink below the 150, by twelve men and four boys, at 30t. per fathom; lode 24 ft. wide, producing occasional stones of tin.

OLD GUNNISLARE.—W. Skewis, R. Secoombe, March 27: both in the western end this lode is producing it ton of good quality yellow copper ore per fathom. The lode is of a soft nature, and is letting out a good deal of water, and from present appearance we believe still greater improvements are lkely take piace.—Caunter Lode: In the castern end the lode has considerably improved during the past week, and will now yield from 56 to 10 no for per fathom. The lode is of a soft nature, and is letting out a good deal of water, and from present appearance we believe still greater improvements are lkely take piace.—Caunter Lode: In the

operations.

EAST WHEAL ROSE.—W. Skewis, T. Doldge, R. Gill, March 25: Penrose engine is working well, and water being forked with fair speed. The 60 from Baynard's shaft is communicated with the engine-shaft on Middleton's lode; this has opened up a good piece of lead ground, and also ventilated the engine-shaft on the workings generally in this part of the mine. We have now a good piece of ground haid open for tribute, from which one pare of men alone in the last month returned nearly 3 tons of silver-lead ore. It is also gratifying to find that our samplings of lead ore are somewhat increasing, and for which we are getting a better price, and we are very confident that very much better results will follow when the bottom of the mine is reached. All the other machinery is in first-class working condition, and doing good duty.

GLASGOW CARADON CONSOLS.—W. Taylor, W. J. Taylor, March 24: We have nothing very new to report this week. In sinking the engine-shaft the men are going on very well with their bargain, and hope to complete it to the 126 by the end of this month, if not before. We are pushing this with all speed, anxious to commence driving to the lodes. In the 114 west we have some very good stones of ore, better than we have seen for a long time. We do hope it will lead to the red of the lode, and capel, with a stones of ore, better than we have seen for a long time. We do hope it will lead to the red of the lode in which end, a vorse-out to drive to interesect the north lode, to six men, at 6t, per fathom. The 40 west to drive by six men, at 3t, 5s, per fathom. In the

30, about 15 fathoms east of Highburrow shaft, a cross-cut to drive to intersect the north lode, to six men, at 6f. 10s. per fathom. The new lode in the 30 north-west has further improved since my report of March 17, and the lode east, which was disturbed by a cross branch, has again made a favourable change within the last day or two in that end. The tributers are preparing a parcel of tinstuff

was disturbed by a cross branch, has again made a favourable change within the last day or two in that end. The tributers are preparing a parcel of tinstuff or sale.

PRINCE OF WALES.—S. Roberts, March 26: In the 102 east we have taken down the lode, which is 3 ft. wide, worth 54. per fathom for tin, and producing some rich copper ore; we are again driving by its side. The lode in the 102 west is 3 ft. wide, worth 2 tons of copper ore, and fair stamping work for tin. In the 90 west the mon have blasted down the main lode, and are now driving on the Silver lode, carrying 45 ft. wide (no indication of north yet), composed principally of white iron, mundic, and friable spar, leaving the main lode, which is 3 ft. wide, producing tin and copper ore, worth 64, per fathom, bending away before it in the south side. Weithinkit will soon break through the Silver lode. All other points in operation unchanged since last reported.

ROMAN GRAVELS,—Arthur Waters and Son, March 27: The 125, south of new engine-shaft, is worth 30 owts. of lead ore per fathom. The 110 south is worth 3 to 4 tons per fathom. The 95 south is worth 30 owts. per fathom, and improving. The 30 south is worth 3 tons per fathom. The 50 north of old shaft, is worth 11 ton per fathom. The stopes generally are yielding their usual quantities of lead ore:

RUSSELL UNITED.—John Bray, March 27: The lode in Matthew's engine-shaft is full 4 ft. wide, of a very promising character, producing a little copper and mundic. The ground in cross-out at Stephen's engine-shaft has become harder, with branches containing quartz, spotted with copper crossing the divage, which looks well for the lode when intersected.

SINCLAIR.—W. T. Harris, March 27: Wacco Shaft: The 65 south has been extended 9½ vards, the ground is of the same congenial character as for some time past. The joint is 1 ft. wide, principally carbonate of lime, containing occasional stones of lead. The intersection of the Baley Gwyn lode under such accounts a subject to the weather is favourable prospects ca

sinting; the genomial many involutions. The meanmery as in good continuous and the service of the property of iron the general characteristics of the formation; and it is the nearest approach the cirit, and there is not so much water to contend with. We hope som the cirit, and there is not so much water to contend with. We hope som the cirit, and there is not so much water to contend with. We hope som the cirit, and there is not so much water to contend with. We hope som the cirit, and there is not so much water to contend with. We hope som the cirit, and there is not so much water to contend with. We hope som the cirit, and there is not so much water to contend with. We hope some the cirit, and there is not so much water to contend with. We hope some the cirit, and there is not so much water to contend with. We can be added to the cirit, and there is no change in the back of the adit level continues in hard robot is also looking more grounders. The case was a last week. The cross-cut north from Rake level continues in hard rider, a mixture of stone, and spar. Ridd's sump is still in plate and grey beds; we have sunk only 4 ft. during last week. The progress is slow, and water troublesome. The general appearance of the stopes or ore workings are about the same as last week.—Bolt's Burn: There is no change in the back of the adit level on Gipin's lode will yield in the aggregate 3 ft. and Grove Rake.

WEST CARADON.—N. Richards, March 28: There is no particular changes to not or per fathom. A stope in the bottom of this level will yield a tonor or per fathom. The south part of Jope's lode, on which we are rising in the back of the adit level on Gipin's lode will yield in the aggregate 3 ft. and the company fully 10,000. The exploration of Ecota Hill is not only interesting in the back of the adit level on Gipin's lode will yield in the aggregate 3 ft. and the company fully 10,000. The exploration of Ecota Hill is not only interesting in the back of the adit level on Gipin's lode, and yields a little ore and municious but not to value.

WEST CREBOR.—J. Andrews, March 28: Fair progress is being made in sinking the engine-s

is worth 6l. per fathom. The rise in back of Pink is worth 9l. per fathom. No other change.

is worth 6l. per fathom. The rise in back of Pink is worth 9l. per fathom. No other change,
WEST GONAMENA.—N. Richards, March 26: We have suspended the driving east of rise, in the back of the midway level, and placed the men to drive the midway level east, where the lode is looking quite as well, producing stones of copper ore, and the ground a little easier for exploring.
WEST HOUWAY.—March 27: In the 110 level west driving will again be commenced. In the 30 east the cross-cut after driving 7 yards north has reached the hanging side of the lode, and a splendid discovery of lead is the result, yielding at present 1½ ton per fathom, and its prospects all that can be desired for further improvement. Will report more fully in a few days. It is certainly most encouraging, and adding considerably to the value of the mine. The cross-cut going south is also undergoing a favourable change, and indicates a near approach to Plantation lode.
WEST MARY ANN.—T. F. Tremellen, March 25: Nothing that has transpired during the past month has induced me to modify the opinion expressed jat the last meeting respecting the improvement of the lode. It is well-defined, 2 ft. wide, and the underlay is 1½ ft. to the fathom, intermixed throughout very finely with rich sliver-lead, with a quantity of barytes, prian, flookan, fluor-spar, quartz, and mundic, all of which are good indications for rich deposits of lead. We are making good progress in sinking, and shall be down the required depth by the next meeting for driving north and south to prove the ore ground gone down from above. At the 40 the men have been driving a cross-cut to intersect the lode which was heaved by a slide. We have cut a branch of quartz about 1 ft. wide going south, which we are now driving upon; water is coming freely from the same.
WHEAL BENNY.—Thomas Cocking. March 25: The lode in the end and

celly from the same.

WHEAL BENNY.—Thomas Cocking, March 26: The lode in the end and topes, east of engine-shaft, continues to yield a fair quantity of rich tin. We is pushing on with our dressing as fast as possible. I hope in the course of a principle to get 2 tons of tin ready for the market. All the machinery is in cod working order.

wheat Benny.—Thomas Cocking, March 28: The lode in the end and stopes, east of engine-shaft, continues to yield a fair quantity of rich tin. We are pushing on with our dressing as fast as possible. I hope in the course of a fortnight to get 2 tons of tin ready for the market. All the machinery is in good working order.

WHEAL CREBOR.—H. Phillips, P. D. Holman, March 25: Fair progress is being made in sinking the new shaft, below the 144; there is no change in the lode since reported. The lode in the 144, driving east of new shaft, is over 4 ft. wide, containing arsenical mundic intermixed with spar and capel on the south part, but as we remarked in our report last week similar changes have taken place during the drivage west of the shaft; the lode will yield 1 tons of ore and 4 tons of mundic per fathom. The stope in back of this level will yield 3 tons of ore and 4 tons of mundic per fathom. The side of the lode, in order to effect a communication with the 144, incre, by the side of the lode, in order to effect a communication with the 144, incre, by the side of the lode, in order to effect a condition of the winze, will yield 3 tons of one of the winze, will yield 3 tons of or ore fathom. The lode in the 132, driving east of the winze, will yield 3 tons of ore and 4 ton of mundic per fathom. The lode in the stope in the back of this level will 4 tons of ore and 3 tons of mundic per fathom. The lode in the stope in the back of this level will 4 tons of ore and 4 tons of mundic per fathom. The lode in the stope in the back of the stope in the bottom of the 129, east of new shaft, will yield 3 tons of ore and 4 tons of mundic per fathom. The lode in the stope in the back of the stope in the bottom of the 129, east of the winze, will yield 3 tons of ore and 4 tons of mundic per fathom. The lode in the stope in the back of the stope in the

ECTON COPPER MINES-SPECIAL REPORT.

March 13.—I have much pleasure in handing you my report on the Ecton Copper Mines, which it would have been impossible for the Ecton Copper Mines, which it would have been impossible for me to do in so short a time if it were not for the able assistance I received from your worthy manager, Mr. Wm. Bowman. I need scarcely refer to the provincial notoriety acquired by the Ecton Copper Mines in consequence of their great richness, other than to say there is abundant evidence to place the correctness of the traditionary and written reports beyond a doubt.—Present Operations: In Salt's adit a party of men are driving west on the Ecton vein. The ground in the extreme end is hard, composed principally of chert, a silicious or flinty rock. Until the tunnel has passed through this hard bar there is little or no hope of getting ore in payable chance of getting payable ore. There is a cross branch about 14 ft. cast of the end of the tunnel about 18 in. broad, thickly impregnated with green carbonate of copper, which, to my mind, indicates the existence of a chamber of copper ore in the immediate vicinity.

Clayton's adit has been driven a long distance into the hill, and is a splendid piece of work; this adit has passed through several lodes and branches, the Clayton lode having proved very rich. In exploring at the horizon of the deep adit your manager is confining his operatious to what he considers the three most promising lodes. The tunnel driving on Clayton's lode has hitherto been wery hard, but it appears to be undergoing a change for the better; there are spots of ore in the lode, but not sufficient to value. A party of miners are cleaning out the level on Chadwick's lode, which, so far as can be seen, is rather small, and though slightly impregnated with copper, does not contain enough to value. In the back (roof) of this level we broke a good plees of copper ore, and the manager has ordered some some to follow it up for the purpose of proving its value.

There is also a party driving on Vivian's lode for the purpose of proving its value.

to value. In the back (roof) of this level we broke a good piece of copper nor, and the manager has ordered some men to follow it up for the purpose of testing its value.

There is also a party driving on Vivian's lode for the purpose of testing its value.

There is also a party driving on Vivian's lode for the purpose of proving its value at a point where it forms a junction with the Quarry lode. This is a very promising lode, and I shall not be surprised to hear they have struck payable ore on it any day. (A valuable discovery was made here two days after this report was written.) A pumping and a winding engine have been erected near Clayton's engine-shaft, at the adit level; pillars and chimney-shafts have been built, and the work very substantially done, and reflects much credit on your engineer. Clayton's engine-shaft, at he sheen drained to a depth of 150 ft. below the adit, and is found to be in fairly good order, and I think you will have no difficulty in draining the mines with your present appliances.

The Ecton Copper Mines are situated on the western side of Ecton Hill, which is said to be 600 ft. above the stream which flows at its base. The whole of the formation, as far as I could discover, is stratified limestone of the lower carboniferous period, which has been much flexured and contorted by volcanic action. The general disarrangement of the strata proves most conclusively to my mind that the principal volcanic force was toward the centre of Ecton Hill; and as there can be very little doubt that this volcanic force brought the minerals to the surface, I shall expect to find the largest bodies of ore much neare the centre of the Hill. In fact, it is my opinion that the bodies of ore hitherto found are subordinate to some monster deposit. This opinion may very naturally excits surprise amongst those who have been in the habit of searching for copper in the older rocks. I am quite certain, however, that no person will question the fact that the geological formation is and it is the nearest approac

As I fully explained to your manager I was most favourably impressed with this part of your property from the first, and after carefully considering the matter in all its bearings I am deeply impressed with the idea that you will get a rich mine here for a comparatively small outlay. In conclusion, I may say I have no doubt in my own mind as to its being a valuable property, and I congratulate the company on securing the services of Mr. W. Bowman. A shrewdiman of business, he has evidently the interest of the company at heart, and I am pleased to call attention to the fact that everything throughout the mine is conducted with the most rigid economy, which is as essential to the realisation of profits as the actual finding of the ore.—Thos. Collingwood Kitto.

SALES OF COPPER ORES.

COPPER ORES SOLD AT THE CORNWALL TICKETINGS, FOR THE

Mines.	MARC	H 31, 1883.				
Devon Great Consols	Tons.		Amo	unt		
	2602	**************	£5192	8	6	
Mellanear	1750	******************************		10	0	
South Caradon	825	*************		15	6	
Gunnislake (Clitters)	537	*************		10	6	
Levant	441	**************		12	0	
Bedford United	531	**************		7	0	
Wheal Crebor	436			4	6	
South Tolcarne	134	**************		13	0	
Marke Valley	275	**************		10	0	
Holmbush	335	**************		15	0	
Prince of Wales	166	*************		14	0	
West Caradon	110	************	397	10	0	
West Wheal Seton	87	*************	356	13	6	
West Kitty	42		327	12	0	
South Devon United	260	*************	326	6	0	
Mid-Devon	65		296	0	0	
Wheal Coates	70	*************	292	0	0	
Glasgow Caradon	90	************	249	12	0	
Devon Great United	65	************	248	12	6	
New Cook's Kitchen	66	*************	202	15	0	
Collacombe Consols	54	*****************	181	11	0	
Tincroft	60			0	0	
West Wheal Tolgus	39		2.07	14	0	
East Caradon	40	***************************************			0	
New Trumpet Conso's	15		***	2	6	
Phoenix	20	***************************************			0	
Botallack	10	*************	- 40		0	
Gawton		*************			o	
West Poldice		***************	800		0	
Wheal Jewell	28	**************			o	
Wheal Agar		*****************	47	11	a	
New West Caradon			4.0		6	

West Gonamena	_ 0		. 31	0	U	

COMPANIES BY WHOM THE ORES WERE PURCHASED Total. 9.361 £27,746 9

WYOMING AND IDAHO.—The geology of these States cannot be better studied than in the elaborate reports of the United States Geological and Geographical Survey of the Territories (Washington Government Printing Office) the twelfth and last annual report of which, including the labours of the corps for the field season 1878 and the office work until the close of the existence of the Survey by law of June 30, 1879, has recently been issued. The report was presently add the the verifited deeper of Dr. E. W. HANDEN IL S. Geological Control of the Survey of June 30, 1879, has recently been issued. and the office work until the close of the existence of the Survey by law of June 30, 1879, has recently been issued. The report was prepared under the superintendence of Dr. F. V. HAYDEN, U. S. Geologist, and occupies about 2000 imperial 8vo pages. The first part deals with the geology, palæontology, and zoology of the region, and the second with the geology of the Yellowstone National Park, its thermal springs and topography. The report is rendered especially valuable by the many hundreds of illustrations which accompany it, and will be of inestimable utility to those who will hereafter be engaged in opening up the economic and industrial resources of the States to which the reports refer; whilst they will be an enduring monument to the scientific skill and practical ability of all engaged upon the work.

CASSELL'S PUBLICATIONS .- The Life and Work of St. Paul, part 27, by Archdeacon Farrar, contains the chapter on Paul's last letter and the concluding chapter, together with the commencement of the appendix. Knight's Dictionary of Mechanics, part 88, extends from Wine-press to Woolff's engine.

WATSON BROTHERS, MINEOWNERS, STOCK AND SHARE DEALERS, &c 1, ST MICHAEL'S ALLEY CORNHILL, LONDON

Money was first coined from English copper in 1717, when the Government of that time purchased for the purpose 700 tons, at 1472, per ton! What a blessing it would be to the mining interest if the present Government, Liberal as it is called, would purchase 1000 tons or so of English now copper, and coin it into money! Instead of 1471. a ton it could now be bought for a little more than one-third of the price: 500 or 1000 tons a-year taken off the market in this way would be a great boon to the miner, and a convenience to the public. The miners could be paid in coppers if necessary, if the coinage

Some 40 years ago the writer had lessons in the "divining rod' from an old "Dowser" in Cornwall; and we are inclined to think the result of the experiment was published in the Mining Journal, together with some explanations as to its causes and effects.

In 1871 the Silver lode at Prince of Wales was worth 50% and 60%. In 1871 the Silver lode at Prince of Wales was worth 50% and 60%, per fathom. On Feb. 4 of that year a stone of ore weighing I cwt. was sent to Messrs. Johnson and Matthey, and yielded at the rate of 4000 ozs. to the ton, equal in money value to 1000%, per ton. This stone produced 127 ozs., and was sold at 5s. 5d. per ounce. The district around has been noted for silver for many years, and Langford, East Cornwall, and Brothers, and yielded over 300,000% worth; and at Langford and East Cornwall we hope to get a lot more. Silver occurs here and in Prince of Wales in bunches or rich deposits, and they are come upon suddenly and unexpectedly. they are come upon suddenly and unexpectedly.

The letter of "S. M. A.," in the Journal of last week, puts the Parys matter very plainly before the shareholders. We have every reason to believe that if the amalgamation is carried out a large and valuable property may be made. We can raise large quantities of stuff at Parys, but only at a loss. Mona has large smelting and manufacturing works, where what does not pay to raise and sell might pay well to manufacture and smelt. If carried out it is proposed that every shareholder in Parys shall have a fully paid-up? It. share pro rata for what he now holds on payment of 3s. per share, in three instalments of 1s. each.

In the 80 west at West Crebor the lode is 6 ft. wide, and very promising.

promising.

Even at the present price of lead 30 tons a month would leave a profit at D'Eresby Mountain, and to pay 10 per cent., on the 1000l. debentures would require less than 10l. a month; and as they will be a first charge upon the property, every shareholder in his own interest should secure as much as he can, and until all have replied we cannot say anything to those not shareholders. Any remaining afterwards will be allotted pro rata.

We hope to have something important to say in regard to Lang-

ford next week.

On the Stock Exchange there has been a little more business doing, and prices generally have improved, though closing somewhat below the best prices. English railways are mostly 1 to 2 per cent. better, cheap money and the fine weather bringing in a few buyers; traffic returns are fairly satisfactory. Mexican Railways and Grand Trunk stocks have fluctuated considerably; the traffic receipts were in both cases better than expected, though showing heavy decreases.

American Railways are very flat. Among miscellaneous securities

Brush Electric Light shares are in demand, also the low-priced shares; of one or two other similar concerns it is said that their business is improving. Foreign stocks are firm, but show no great changes of Foreign stocks are firm, but show no great changes of a. any importance.

TO THE METAL TRADE.

TOR COPPER, FIN LEAD, &c., apply to-MESSES. PELLY, BOYLE, AND CO., SWORN METAL BROKERS, ALLHALLOWS CHAMBERS, LOMBARD STREET LONDON.
(ESTABLISHED 1849.)

HENRY NUTT, BIRMINGHAM,

LEAD ASHES, LEAD SLAGS, SULPHATE OF LEAD, TIN ASHES, TERNE ASHES, AND ALL REFUSE CON TAINING TIN AND LEAD.

HENRY WIGGIN AND CO., (LATE EVANS AND ASKIN)

NICKEL AND COBALT REFINERS, BIRMINGHAM.

The Mining Market: Brices of Metals, Ores, &c.

	METAL	MARKET-LONDON, MARCH 28, 1884.
IRON. & s.	1. £ s. d.	TIN. & s. d. & s. d.
Pig, ems, f.o.b., Clyde 2 2	514	English, ingot, f.o.b \$7 0 0
Scotch, all No. 1 2 3	3	, bars , 88 0 0
Bars Welsh, f.o.b. Wales 5 2	6	, refined 89 0 0
in London. 5 12	6	Australian 83 0 0- 83 5 0
Stafford., . 6 15	0-7 0 0	Banca nom
in Tyne or Tees 5 2		Straits 83 0 0- 83 5
Swedish, London 9 0	0- 9 10 0	COPPER.
gails, Welsh, at works 5 2		Tough cake and ingot. 59 10 0- 60 0
Sheets, Staff., in London 7 15	3- 8 0 0	Best selected 6: 0 0- 62 0
Plates, ship, in London . \$ 5	0- 2 10 0	Sheets and sheathing. 65 0 0- 67 0
Hoops, Staff., 6 15	0-7 50	Flat Bottoms 68 0 0- 70 0
Mail rods, Staff., in Lon. 6 15	0-7 0 0	Wallaroo 62 0 0- 63 0 0
STEEL,		Burra, or P.C.C 62 0 0- 62 10
English spring 12 0	0-18 0 0	Other brands nom. 60 0 0- 62 0
cast30 0	0-45 0 0	Chill bars, g.o.b 53 17 6- 54 0
Bwedlah, keg13 0	0-14 0 0	QUICKSILVER.
,, fag. ham13 10	0-14 10 0	Flasks, 75 lbs., war 5 12 6
Rails at works 5 0		Риозриов Виомав.
	C-7 0 0	Alloys I. and II £114 0
LEAD.		. V 120 0 (
English pig, common 11 7	6-11 12 6	., VI. and VII 135 0
., L.B11 12		" XI., Duro A, Duro B 112 0
. W.B11 17	6-12 2 5	BRASS.
sheet and bar12 10	0	Wire 8%d
pipe12 17	6	Tubes 634
red15 10	0	Sheets 674
, white16 10	0-19 0 0	Yel. met. sheath. & sheets 5%-5%d.
patent shot14 15		TIN-PLATES. per box
Spanish 11 0	0	Charcoal, let quality 1 10-1 2
NICKEL.		,, 2nd quality 0 19 0- 1 0 0
Meta per cwt		Coke, 1st quality 0 16 3- 0 16 6
Ore 10 percent, per ton		,, 2nd quality 0 15 3- 0 15 6
SPELTER.		Black per ton 15 10 0-
Silesian, ordinary brands14 10		Canada, Staff. or Gla. 1 12 0 0
" special brands, 14 15		at Liverpool
Inglish Swanses15 2	5	Black Taggers, 450 of 30 0 0-
Sheet sinc18 0		17 X 10
* At the works, Is, to Is, Sc	l. ner box	less for ordinary : 10s, per top less for

As the works, is, to is, 6d, per box less for ordinary; 10s, per ton less for Canada; IX 6s, per box more than IO quoted above, and add 6s, for each X. Terne-plates 2s, per box below tin-plates of similar brands.

Remarks.—There is still a very unsatisfactory tone prevailing in our markets, and owing to an absence of demand and the existence of a very uneasy feeling, prices have further depreciated, and buyers, for the most part, still refuse to pay the current rates. There are many features which prove the trade to be in a very bad and feeble condition, various symptoms which give cause for anxiety, and sundry events which cripple and injure traders in the carrying out of their business. It is difficult to assign any special cause for the present depression; it has been brought about by degrees. Step by step, little by little, the trade has gradually become worse and worse. For the last 13 months or more there has been a continued reduction in profits, a repeated failing away of prices, and now the minimum scarcely seems to have been touched, and there is an easy tendency of prices. There has not been a sudden change from good trade into bad trade, from briskness into duiness, from high prices to low prices, but a steady failing away; loss added to loss, business more and more curtailed, and spread over such a vast number of hands that few gain any remunerative return. Such has been the condition and tendency of the trade, culminating at last in the present depression. This does not argue very well for the future, and the prospects of an immediate revival are thereby minimised. Traders who have been so greatly crippled by the depression not yet terminated have not the means, the courage, nor the will to enter into fresh business beyond absolute requirements. Prices, when they were higher than what they are now, were considered low, and in consequence several purchases were effected, but ere the prompts fell due the markets had much further depreciated, and heavy losses have been the consequence.

Is it any wonder, then, that there should be a general indisposition to do

when they were higher than what they are now, were considered low, and in consequence several purchases were effected, but ere the prompts fell due the markets had much further depreciated, and heavy losses have been the consequence.

Is it any wonder, then, that there should be a general indisposition to do business even at the reduced rate? What is there to prevent prices further receding? There is no stay, no foundation to the market. The further prices recede the greater are the losses which are incurred, and the spring season is now too far advanced to give any hope of a forthcoming revival yet awhile. Business is rarely active in the summer, and, therefore, it seems more than likely that now no general revival can be effected before the autumn, though it is to be hoped, but not expected, that increased orders may shortly be given out owing to the limited business that has lately been transacted. The trade with India remains very slack, and business is difficult to effect through a variety of causes with any of the markets in that country. This week the Bank of Bombay has raised its rate of discount from 3 to 1 per cent, so that business with that market is likely to become still more contracted than what it has been just lately. Here money is cheap, but that does not stimulate confidence. In Bombay it is dear, and anxiety is caused thereby. The one is the result of bad trade, and the other interferes with business. In consequence thereof, the prospects not of our market alone, but also of trade generally, are made dull. Business is bad siready, and with the high rate of discount ruling in Bombay, it is clear that from one of our principal markets there is likely to be a continued absence of demand until such a time as money becomes cheaper. The cheapness of money here does not counterbained the lifect of dear money in Bombay, and in consequence another drawback to trade has been effected. The time of depression is prolonged, and the outlook of the market is made still more dull and gloomy than it was befo saniuscturers are reported to be bankly on for overs, and in order to so other specifications to keep their works in operation they are not indisposed to accept lower prices. With India there is little doing, and the trade is in such a bad and quiet condition that quotations are almost nominal. In fact, buyers have more to do with regulating prices than what sellers have. It is more a question as te what buyers' limits are. If they are at all reasonable they are more often than not accepted, because in the present critical state of affairs sellers are anxious to refuse no peractical business; and while in this they show discretion, yet at the same time it also indicates that the trade is in a most unsatisfactory condition. Strong sheets are quoted down 2l. per ton.

IBON.—There is a good deal of steadiness in this market, which almost indicates that prices are now so low that they cannot recede to any further creat extent. Several manufacturers have for a long

condition. Strong sheets are quoted down 21. per too.

IRON.—There is a good deal of steadiness in this market, which almost indicates that prices are now so low that they cannot recede to any further great extent. Several manufacturers have for a long time past refused to accept the cheap prices which are now being so freely quoted by certain houses, and in consequence the amount of business they receive is very limited. It is chiefly among the manufacturers, who turn out the higher classes and better brands of iron that refuse to take the prices, and therefore, are mostly nominal. He drivage. The sampling this week is 510 tons. South Caradon, who turn out the higher classes and better brands of iron that refuse to take the prices, and therefore for the most part they only receive such orders where the quality of the from cannot in any way be called into question, and from that is required for special work. The difference in prices between high and what are known as ordinary brands is very great, and it is therefore not in the last surprising that almost all the orders in the market go to the sellers of the inter description of iron. The trade in all parts of the country is duil, and particularly in Stanfordshire, where the competition of the northern manufacturers is keenly experienced. Lower wages are being arranged for in the hope of carried the prices and the prices between the prices between the prices between the prices between high and insurance, rest to 3s, ; New Trumpet, 1 to 1½; Copper are mostly normals. Collision, 4 to 1½; West Crebor, 1s. to 1½; Prince of Wales, ½ to 1½; to 1½;

calls for any special comment, but they confirm the quietude in the general trade. The smount of business being transacted in makers from continues to be detailed account of business being transacted in makers from continues to be decided. The smount of business was done between 42s. 55/d. and 42s. 55/d.; and at the opening on Tuesday there was a firmer tone, and transactions were recorded business was done between 42s. 55/d. and 42s. 55/d.; and at the opening on Tuesday there was a firmer tone, and transactions were recorded business was done between 42s. 55/d. and 42s. 55/d. and 42s. 55/d. but have not the market became quietee, and the price of the start of the continued downward tendency in the price of metals, and from other causes quite beyond their control, the directors felt themely a start of the continued downward tendency in the price of metals, and from other causes quite beyond their control, the directors felt themely a start of the sun quarterly dividend in January last, the start of the sun quarterly dividend in January last, the start of the sun quarterly dividend in January last, the start of the sun quarterly dividend in January last, the start of the sun quarterly dividend in January last, the start of the sun quarterly dividend in January last, the start of the sun quarterly dividend in January last, the start of the sun quarterly dividend in January last, the sun quarterly dividend in January last, the sun and th

TIN.—The turnover in this metal has been fairly large, and at the early part of the week prices continued to show an upward tendency, but have since been easier. There is no special new feature, fluctations in a speculative market are of regular occurrence, and, therefore, no great consequence it attached to them, unless they be of a very marked character. The principal change during the week was on Wednesday, when a fall of fully 20s, per ton was affected. But previous to that day there had been a rather sharp rise, and, therefore, the reaction was not more than of ordinary occurrence. At the early part of the week the cash price had advanced to 344.10s.; but since which fully 25s, per ton less has been done at various intermediary rates. Yesterday the Banca sale in Holiand took place, and realised an average price of 523/6 fls. which is equal to about 31/4.5s. per ton.

Upon the announcement being made here there was no great impression effected upon our market, but on the whole there was a slightly steadier appearance, the market stiffening up to 2s. 6d. per ton. The course of the market this week is not without its significance, though it does not foretell the future. It shows that few operators have the courage to follow up the market; it signifies that while there is a material interest in the advancement of prices yet there is not enough confidence in the maintenance of the market to induce operators to purchase after a slight rise has been effected; it shows that operators are satisfied with the smallest profits, and only too glad to get any remunerative return at all in these times when heavy losses are of so frequent occurrence. It must not, however, be forgotten that it was a reported reduced supply that caused prices to advance, and if these reports prove correct we may yet see another advance before very long.

STEEL.—There is still a quiet market, and prices almost all round are steady.

TIN-PLATES.—There has been a slightly better demand both for cokes and charcoals during the last few days, but prices have not undergone any quotable change.

SPELTER remains quiet, and we quote Ordinaries at 14s. 10s. per

ton.

LEAD is dull. There are sellers of Spanish at 111. per ton, and English is quoted at 111. 7s. 6d. to 111. 12s. 6d. per ton.

QUICKSILVER.—The importers' price is without alteration, whilst second-hand parcels are less freely offered.

The settlement of the fortnightly account has again occupied the chief attention of dealers in the MINING SHARE MARKET, but there has also been more doing in shares, and in several instances a rise in prices, especially in one or two prominent tin mines. Those chiefly dealt in have included Dolcoath, East Pool, West Kitty, Wheal Grenville, Wheal Agar, Wheal Crebor, Prince of Wales, West Frances, Boman Gravels, Trevaunance, and a few others.

TIN.—The standards for ore have not been advanced since Jan. 7, but there is a better demand springing up for tin mines, and one or two have advanced in price. Carn Breas are quoted 2 to 2½; Cook's Kitchen, 10 to 11. Dolcoaths advanced to 72, and leave off 70 to

but there is a better demand springing up for tin mines, and one or two have advanced in price. Carn Breas are quoted 2 to 2½; Cook's Kitchen, 10 to 11. Dolcoaths advanced to 72, and leave off 70 to 72; the agents hope to sell 600 tons of tin for the next three months. East Pools have been dealt in at an advance to 41, 43. East Lovells, ½ to 1; East Blue Hills, ½ to ½: Killifreth, ½ to ½. South Frances, 8 to 8½; it was stated last week a call of 5s, per share had been made at the meeting. The loss on four months' working was 1006l., and the balance against the company 1187l. The tin sold (130 tons) realised 6142l., or 47l. per ton, being 3l. 13s, per ton less than that sold at the previous meeting. The labour costs paid up to March were 4060l.; merchants' bills, 2848l. South Condurrow, 8½ to 9; Theoroft, 3½ to 3½; West Basset, 2 to 2½.

We erroneously stated last week that at Wheal Grenville the profit charging 16 weeks cost against 14 weeks' returns was 204l. The accounts show that the profit is in reality 433l. 1s. 2d. The dues to Dec. 6 belonged to last quarter's accounts. The bank charges and committee fees are for the half-year. The actual figures were—Tin sold, 5997l. 5s. 5d.; carriage charged in cost sheets reallowed by smelters, 17l. 2s. 6d.; together, 6014l. 7s. 11d.; less dues 199l. 18s. 2d. = 5814l. 9s. 9d.; whilst on the other side of the account we have—Labour cost 16 weeks, 3633l. 17s. 8d.; merchants' bills, 726l. 17s. 11d.; coal account, 884l. 1s. 11d. = 5294l. 17s. 6d., which leaves profit, 519l. 12s. 3d.

West Frances, 8 to 8½. West Godolphin, 1 to 1½, call paid. Wheal Agar, 12½ to 13½; wheal Basset, 3 to 3½; Wheal Grenville, 5 to 5½; Wheal Kitty (St. Agnes), 7s. 6d. to 12s. 6d. West Kitty, 12 to 12½ ex div.; at the meeting the accounts showed a profit of 2965l. 6s. 5d. on four months' working, and a balance at bank of 19363l. 6s. 5d. on four months' rorking, and a balance at bank of 19363l. 6s. 5d. on four months' rorking, and a balance at bank of 19363l. 6s. 5d. on four months' returns. The r supposed to be the forerunner of tin. Polberro, 1½ to 1½; the Pink lode, which runs through Blue Hills, East Blue Hills, and Penhalls, and has produced upwards of 100,000L profit, is said to be worked up to the boundary of Polberro. South Kitty, ½ to ½; Mounts Bay, 4s. to 6s.; Tresavear, 8s. to 9s.; New Trumpet, 1 to 1½.

COPPER remains about the same, and there is not much doing in

to \$\frac{1}{2}\$: Linares, \$3\$ to \$\frac{3}{2}\$; Mason and Barry, to bearer, \$11\frac{1}{2}\$ to \$\frac{1}{2}\$. Michipicoten, \$\frac{1}{2}\$ to \$\frac{1}{2}\$. New Callao, \$4\$ to \$6\$.; New Emma, \$\frac{1}{2}\$ to \$\frac{1}{2}\$; Nouveau Monde, \$\frac{1}{2}\$ to \$\frac{1}{2}\$; Organos, \$\frac{1}{4}\$ to \$1\$; Panulcillo, \$4\frac{1}{2}\$ to \$5\frac{1}{2}\$; Potosi, \$\frac{1}{2}\$ to \$\frac{1}{2}\$; Quebrada Railway, \$4\frac{1}{2}\$ to \$5\$; Richmond, \$2\frac{1}{2}\$ to \$3\frac{1}{2}\$; Rio Tinto Bonds, \$102\$ to \$104\$; ditto, shares, \$18\frac{1}{2}\$ to \$19\frac{1}{2}\$; Ruby and Dunderberg, \$\frac{1}{2}\$ to \$\frac{1}{2}\$; South Australian Copper Mines, \$4\$. to \$6\$.; St. John del Rey, \$5\$ to \$65\$; Tharsis, \$6\$ to \$6\frac{1}{2}\$; Tolima, \$4\$, \$6\frac{1}{2}\$ to \$7\frac{1}{2}\$. United Mexican, \$10\frac{1}{2}\$ to \$1\$; the telegram received on Wednesday states that the excess of returns over outlay in the Mine of San Cayetano de la Ovejera for the week ending March \$22\$ is \$4000\$. Victoria, \$\frac{1}{2}\$ to \$1\$; a telegram has been received—" Mill started." West Callao, \$\frac{1}{2}\$ to \$\frac{3}{2}\$.

The Market for Mine Shares on the Stock Exchange has not only maintained the improvement noticed last week, but has given evi-The Market for Mine Shares on the Stock Exchange has not only maintained the improvement noticed last week, but has given evidence of a permanent revival of business, which is most gratifying. The settlement was not a very heavy one, but has passed off quite satisfactory. The condition of the metal market continues unfavourable; but as neither lead nor tin have further declined, and the drop in copper is not large this week, it is hoped that the minimum has now, indeed, been reached. Just at the close of the market, business was practically ignored through the consternation caused by the announcement of the death of the Duke of Albany, although no confirmation had then been received. His connection with, and support of, science, literature, and art, and the fact of his being President of the Royal Society of Literature, brought his name and talents frequently before the readers of the Mining Journal, although he was less directly connected with mining than His Royal Highness the Prince of Wales. The Duke of Albany was ever ready to encourage and assist in any movement for extending knowledge, thus promoting the welfare of our national industries, and his early death will be deeply regretted throughout the kingdom.

Our usual telegram from Cornwall this evening states:—During the past week the Cornish Mine Share Market was fairly animated, and it is evident that a rise in the price of tin is looked for with pretty much confidence. This is manifested by the attention that continues to be given to the more prominent shares, particularly Dolcoath, East Pool, and two or three other mines. Dolcoath and East Pool are maintaining their position, and Agars continue in demand, as a good profit is exceeded at the next meeting. Condurrows

East Pool are maintaining their position, and Agars continue in demand, as a good profit is expected at the next meeting. Condurrows are hardly so strong, but South Crofty is still enquired for, and is firmly held.

The Lisbon-Berlyn (Transvaal) Gold Fields in which 100,000 shares have already been allotted to 1045 shareholders are inviting subscriptions for 50,000 more shares to complete the 150,000 to be subscriptions for 50,000 more shares to complete the 150,000 to be first issued. From the prospectus, which will be found in another column, it will be seen that the Lisbon and Berlyn properties contain upwards of 18,000 acres. The progress made with reference to sending out the machinery and organising the staff has been very great, and the arrangements for early working may be said to be practically completed. The most complete mining plant obtainable has been sent out, and a most efficient staff engaged by the company through the good offices of Prof. Price, the well-known expect of San Francisco. The whole of the staff should be on the gold fields about the end of next month, and the machinery in about a month later, and it is confidently expected that within three months afterwards the first shipment of gold will be made. The energy displayed by the executive has certainly been most exceptional, and gives good promise for their successful activity in the future.

The Land and Loan Company of New Zealand, with a capital of 1,000,000U., in shares of 5L each, has been formed for the lending of money upon security of mortgages of freehold, leasehold, and other property in New Zealand, and making advances against produce or consignments. The purchase, management, and resale of freehold or leasehold lands in New Zealand, and of stock and produce in connection therewith, and the conduct of a general agency business,

consignments. The purchase, management, and resale of freehold or leasehold lands in New Zealand, and of stock and produce in connection therewith, and the conduct of a general agency business, comprising the management of funds which may be sent to New Zealand for investment, the collection of dividends and other moneys, and the care of consignments to and from New Zealand, and their realisation, with power to advance against such consignments. Mr. P. C. Fulton (who has had more than 20 years' experience in the management of properties in New Zealand) is to act as managing director in the colonies, and will make a substantial investment in the company's funds. The settlement at Hawkes Bay has been selected as the opening field for operations, on account of its salubrious climate, the fertility of its soil, and its suitability for the raising of the most profitable kinds of sheep and cattle. After careful investigation as to value by the directors, a contract has been made to take over a property in this district recently acquired by Mr. Fulton for the sum of 34,895. It consists of 735 acres of freehold land, lenced and subdivided, and about half laid down in English grasses, which will form a starting point, and the company propose to buy other properties in the same district as opportunities occur. There are about 900 sheep on the above property, which will (after inspection) be taken over by the company at a valuation. The company's prospectics, and further reference to the enterprise, will be found in other columns.

The Consolidated Land and Cattle Company, with a capital of 75,000l., in shares of 5l. each, has been formed with probably the most aristooratic board of directors brought together for some years, to purchase herds and ranches, consisting of 100,000 acres of free-hold land, 76,500 head of branded cattle, and the calf crop of 1884, estimated to number 20,000 to 25,000 head, also 1000 horses, 2000 hears as a contract for the calcalance of the calcalance of the calcalance of the calcalance of the

estimated to number 20,000 to 25,000 head, also 1000 horses, 2000 hogs, ranche implements, equipages, improvements, &c., all in the State of Texas, U.S.A., and to carry on the business of raining cattle and other live stock in the United States of America. The directors have obtained the option to acquire all or any of the said ranches as they may see fit. The object of transferring the herds to a single company is to lessen the proportionate expenses, extend the improvements, and develope the herds, which combined will form one of the largest, as they are already well known to be among the best graded, herds of any magnitude in the State. The business of cattle raising in the Western States of America is now acknowledged to be highly remunerative. Numerous companies have Jately been formed for carrying it on, and are working very successfully. The prospectus and further reference to the enterprise will be found elsewhere.

The North Mexican Silver Mining Company, with a capital of 200,000L, in shares of 1L each, are inviting subscriptions for 60,00L. Seven per Cent. First Mortage Debentures. The prospectus, which estimated to number 20,000 to 25,000 head, also 1000 horses, 2000

200,000., in shares of 1.e. each, are inviting subscriptions for 60,000.6. Seven per Cent. First Mortgage Debentures. The prospectus, which will be found in another column, explains that 80,000. of the shares are set aside to be issused with the debentures. The debentures must be paid off before any dividends can be paid on the shares. Each subscriber of 20. is given a debenture for 20., and fully paid-up shares, free from all liability, for 20. He thus gets his capital, with interest, returned by the payment of the debenture, and a share in the future profits of the mines, through the fully paid shares presented to him gratis. Mr. Thomas B. Provis, M.I.O.E., and two other engineers, calculate that there will be a minimum income of 75,000. to increase at an early date to 105,000. This sum will pay off the whole of the debentures and interest during the second year, and a dividend of over 50 per cent. per annum to the debenture holders on their share capital the third year. Each detenture will be for the sum of 20. and will be secured by a mortgage in the name of the trustees. As to the verification of statements the prospectus supints out that it is exceedingly rare that any mining enterprise can adduce data, derived from official and disinterested sources, to substantiate its valuable and important character. In this company the historical reports and information extracted from standard works, appended to the prospectus, supply most reliable, independent, and unbiassed testimony as to the exceptional merits of the properties and the profits to accrue therefrom. The Mexican Railway Company are inviting subscriptions at 91

per cent, for 266,500l. Six per Cent Second Mortgage Debenture Stock, redeemable in about 24 years by many of per cent. for 266,5001. Six per Cent Second Mortgage Debenture Stook, redeemable in about 24 years by means of a cumulative sinking fund of 2 per cent. The stock will form the second charge on all the property and revenues of the company already mortgaged as security for the 2,000,0001. First Perpetual Mortgage Debenture Stock, which is the only prior charge to which the stock now offered will be subject. The present issue, producing 240,0001. net, is to meet that requirement, and the Mexican Government subvention being specially applicable, so far as necessary, to such outlay, will be primarily employed towards the service of the loan. The company's share of the subvention, which has 10 years to run, is now about 50,0001, per anum, and although the payments to the company, which were regularly received during many years, fell greatly into arrear during the past year, they were still sufficient to meet the interest and sinking fund of this issue, independently of its mortgage on the general property and revenues of the undertaking. The company reserves the right of increasing the amount of the sinking fund at any of the yearly drawings. The amount of the subscription is payable by instalments extending to the end of

May.

The Ball Gold and Diamond Dredging (B) Company is now in process of formation with a capital of 7500L, in shares of 10L each, for working by means of the Ball dredger, the bed of the river Tibagy, which flows in the district of Castro, province of Parana, South Brazils. The prospectus states that the climate is remarkably that the climate is remarkably only between 66° and 37° Fahr. for working by means of the Ball dredger, the bed of the river Tibagy, which flows in the district of Castro, province of Parana, South Brazils. The prospectus states that the climate is remarkably salubrious, the temperature varying only between 66° and 37° Fahr. A seaport, a railroad, and a car track connect the township of Tibagy with the sea. The total concession covers 8500 acres. The value of the hilliside gravels has been taken as the basis of the calculations, instead of the much higher value of the river gravel, which, especially in certain known reaches, such as Imbau, and a place three miles from Tibagy, whence fabulous amounts have been taken from time to time by hand, and another place where in one week six men saved 500. worth of diamonds, at Tibagy prices, which are very low. Continual prospecting by means of special tools will always precede the company's plant, which will thus always be tept at work in the very richest places. The owners are so satisfied with the merits of the Bail system, that the following terms have been agreed upon for working the river bed:—1. The company to choose and locate the richest 800-acre plot of river bed they can find, and place and work thereon a Ball plant, paying all expenses.—2. In consideration thereof the owners abandon to the company two-thirds of the gold and diamonds raised.—3. The company can further secure further lots of 800 acres by applying for them after prospection, and the only obligation is to place and work thereon a Ball plant within reasonable delays.—4. The company can bandon any plot and take its plant to another. No money is paid for property—no money is paid for patent rights—no money is paid for promoting the company. The whole of the money subscribed is applicable to working the gold-bearing strata. Taking an average of the few similar companies placed on the market lately, it is found that the capital required is 347,0004, the payments to owners 224,0004, the working teagers and sould be gravels.

The Irish Land Purchase and Settlement

2 tons of copper ore per fathom.

Devon Great United, ½ to ½; the managers report that the lode in the winze sunk below the 104 fathom level is worth 6 tons, and the rise above 120 is worth 2 tons per fathom. The 65 tons of copper ore sold last week realised 248l. 12s. 6d., and 42 tons of ore 46l.

19s. 10d., the total amount being 295l. 12s. 4d.

Deskeralls, ½ to ½, the report and recommendations of the discontinuous control of the discontinuous

ore sold last week realised 2481. 12s. 6d., and 42 tons of ore 461.

19s. 10d., the total amount being 2951. 12s. 4d.

Drakewalls, \(\frac{1}{2}\) to \(\frac{1}{2}\); the report and recommendations of the directors were approved at the general meeting on Thursday; the monthly sales of tin will, it is said, be considerably increased. Kit Hill, \(\frac{1}{2}\) to \(\frac{1}{2}\); the lode in the shaft is looking much better, and better progress is being made in driving the Tunnel level.

Ecton, 1\(\frac{1}{2}\) to 2\(\frac{1}{2}\); it was stated a fortnight since that the mine has been inspected for a shareholder by Mr. Thos. Collingwood Kitto, and in \(\frac{1}{2}\) another column of to-day's Journal his report is published; it is very encouraging. He reports that some of the Ecton deposits are not unlike in form those of the celebrated Burra Burra Mine of South Australia, where he himself had considerable experience. He opines that the ore bodies hitherto found are subordinate to some monster deposit, and with regard to future operations fully endorses all that is being done by the resident agent.

North Busy, \(\frac{1}{2}\) to \(\frac{1}{2}\); the immediate point of interest here (writes a correspondent) is the 15 cross-cut to cut the copper lodes. They are now within 2 fms. of the first copper lode. Shares are being bought by persons living in the locality of the mine, whose opinion is that a valuable lode of copper ore will be met with.

South Kitty, \(\frac{3}{2}\) to \(\frac{1}{2}\); the agent reports that "the lode in the new shaft has greatly improved and enlarged during the last few days, and we still continue to break tinstuff. We expect further improvement as we reach depth, and we shall soon be ready for pumping machinery, which we hope soon to erect. We have a very suitable engine, &c., under consideration." A telegram received to-day (Friday) states that an assay has been made of the new lode, and that there is a great improvement in value.

South Wheal Frances have advanced to 8\(\frac{3}{2}\), \

South Devon, $\frac{1}{4}$ to $\frac{1}{2}$; the 120, west of Martin's shaft, has been driven upwards of 3 fms. during the past month. The lode is fully 5 ft. wide, and worth 12l. per fathom. A sampling of ore will take

orien upwards of a fins, during the past month. The roles is fully 5 ft. wide, and worth 12% per fathom. A sampling of ore will take place on April 7.

West Seton, 4½ to 5, and reported in good demand. The mine, it is said, is opening out some rich tin ground. West Basset, 2½ to 2½, and reported in demand. The North Frances part of the mine has improved, and sales of tin are likely to be increased.

California Gold, ½ to ½; the resident manager telegraphed the directors on Thursday:—"Mill run, 326 tons, yield \$2200. Second mill started. Hidden Treasure Mine putting out good ore."

Ruby and Dunderberg, ½ to ½; the weekly report advises very little work at the Home Ticket during the week, owing to holidays and the miners being employed part of the time in clearing the roads from snow. At the Lord Byron the tunnel is nearly completed; when this is done the orebody passed through will be prospected. At another part of this mine some tributers are extracting ore: 22 tributers are at work at the Dunderberg Mine, a considerable quantity of ore is waiting to be sent down from this mine to the furnaces. The telegram received last Tuesday advises a partial resumption of shipments; but the roads were still in bad order, which was much retarding the work; it is hoped that each week will now show an improvement in this respect.

La Plata, ½ to ½; the February output of ore from La Plata Mine was 1200 tons.

La Plata, \(\frac{1}{4} \) to \(\frac{3}{5} \); the February output of ore from La Plata Mine was 1200 tons. A nice body of soft carbonates of good grade was struck in the south workings, and good ore was also met with in a struck in the south workings, and good ore was also met with in a rise from the west drift. In the north drift also the rise entered a good body of ore, although the grade is not so high as in the west. South from shaft a small vein of high grade ore is being followed. I'rospecting work is being carried on by the extension of the south drift by drifting east from the bottom of Gneson incline, and by the shaft, which has been sunk 39 ft. in the month, being still in hard limestone. On the whole the mine has improved, and the output for March is expected to he of much better grade. The the output for March is expected to be of much better grade. The continuous storms prevailing during the month prevented the regular shipment of the bullion, of which 85 tons still remained to be sampled and consigned. The weather is now fine.

Organos, ½ to 1, and reported in demand throughout the week at improved prices; the greatest confidence is entertained by those interested that the future of the company will be preserved.

to proved prices; the greatest connence is entertained by those interested that the future of the company will be prosperous. The crushings to date amount in the aggregate to not far short of 2000 tons, showing an average of over 11 dwts, per ton, a rate at which, it did understood, any gold mine can yield good profits. Much of the grartz referred to has, however, been taken from the surface, and from a part of the mine which had crushed in, and was consequently of poor character. The average of the better class of quartz—

1 oz. 2 dwts. per ton is, therefore, considered to be more like that which will be obtained in future. The greatest interest is taken in the Socorro part of the company's property, which though only discovered last year, has so far returned in profit as much as has been continued in the society of the soc

the Scoorro part of the company's property, which though only discovered last year, has so far returned in profit as much as has been spent upon it.

Tankerville Great Consols, ls. to 2s.; the half-yearly meeting was held on Wednesday, full particulars of which appear in another column, by which will be seen the importance of the shareholders at once coming forward and subscribing for the remaining 10 per cent. preference shares to enable the management to carry on with all speed and vigour the operations in sinking shaft, &c., to the junction of lodes, where it is expected some important discoveries will be met with during the next few months.

In Lead Mine Shares there has been less doing than in other descriptions, but there is, nevertheless, more inclination to deal. The price of the metal has not further receded, so that it is hoped that an upward movement may be looked for. The Great Laxey report and balance-sheet, to be presented at the meeting on April 9, are satisfactory. The directors state that in consequence of the continued downward tendency in the price of metals, and from other causes quite beyond their control, the directors felt themselves unable to declare the usual quarterly dividend in January last. They are, however, pleased to state that, should no unlooked-for serious circumstance occur, they anticipate being able to declare, at their meeting in April, a dividend of 5s. per share.

Roman Gravels, 4½ to 4¾; the mine continues to look well, the ends driving being worth together about 11 to 12 tons of lead ore per fathom, and the stopes generally are producing their usual quantity of lead ore.

Messrs. M'Calmont Brothers and Co. announce the numbers of

ends driving being worth together about 11 to 12 tons or leau ore per fathom, and the stopes generally are producing their usual quantity of lead ore.

Messrs. M'Calmont Brothers and Co. announce the numbers of \$3 bonds, amounting to 12,600l., of the Northern Central Railway Company (issue of 400,000l. sterling, or \$2,000,000 gold Six per Cent. Consolidated General Mortgage bonds, Series A, and 200,000l. sterling, or \$1,000,000, Series B) to be paid off at par, either at the company's offices at Baltimore or in London on July 1.

It is notified that the half-year's interest on the Six per Cent. A Debenture Stock, and the Four per Cent. B ditto, of the Windsor and Annapolis Railway Companies, due April 1 next, will be paid on and after that date at the company's bankers, Messrs. Robarts, Lubbock, and Co.

And after that date at the company's bankers, Messrs. Robarts, Lubbock, and Co.

At the twenty-first ordinary general meeting of the Mauritius Land, Credit, and Agency Company, held on March 25, the report and statement of accounts to Dec. 31 were adopted, and a dividend of 3s. per share was declared, making the usual distribution of 15 per cent. for the year.

The Norfolk and Western Railroad Company notify to holders of \$990,000 6 per cent. Enlarged Mortgage Bonds of the Virginia and Tennessee Railroad, maturing June 30, 1884, that they will be entitled to have the time for payment extended to June 30, 1900, with interest at the rate of 5 per cent. per annum, provided they join in the agreement to do so before May 31 next. Bonds not presented for extension will be purchased at par at maturity.

It is notified that interest to March 31 on the Preferred Shares of the North Brazilian Sugar Factories at the rate of 7 per cent. per annum (less income tax) will be payable by warrants on and after April 1 next at the company's bankers, Messrs. Harris, Farquhar and Co., and Messrs. Martin and Co.

OLD SHEPHERDS.—There is no change to report, and the quotation remains 1 1-16ths to 1 3-16ths. The market has a very hard appearance. The "bears" made a most ineffectual attempt to break down prices. The state of the account, showing heavy over-sales, was of itself sufficient to sustain prices, independent of the influential buying for investment and the weeding out of weak holders. The mine is looking well, the lode at the 102 of itself warranting considers by higher price. consideraly higher prices.

OSCAR GOLD MINE.—We are informed that a few stones from the OSCAR GOLD MINE.—We are informed that a few stones from the lode at this mine, weighing together 10 lbs. 10 ozs., have been crushed by Mr. Claudet, and produced 8 ozs. 16 dwts. of gold, being at the rate of about 1850 ozs. per ton. Mr. J. H. Murchison (the Chairman), and Capt. Daw (one of the directors), have left for the mines this week, and on their return the statutory general meeting will be called. The machinery is in hand and will be delivered in a short time, but some tons of the richest stone are at once to be sent to England.

TREVAUNANCE UNITED.—At the meeting of shareholders on Wednesday (Mr. John B. Reynolds presiding) there was a large attendance of shareholders, upon whom (writes a correspondent) a surprise was sprung by the information of the important discovery which has taken place in the property. The improvement is in the 55 crosscut on the rich Pink lode, where they have a course of copper ore, probably the richest in the county of Cornwall. It should be remembered, however, that only 3 fms. have been driven on it; and, seeing that it is the Pink lode, which has produced 100,000l. profits in Penhalls, and which is known to be productive in the Polberro Consols sett, there is every reason to suppose that the improvement will be a permanent one, and will greatly add to the celebrity of the St. Agnes district. There can be no doubt that, from the Chairman's observations and those of the manager, the impressions on their minds concerning the mine were very favourable. There were no liabilities due and unpaid; on the contrary, a credit balance was shown of 1951 14s. 2d. It was thought prudent, however, in order to keep up the good financial position of the mine, to make a small call of 1s. per share, which was ample for all the requirements of the coming four months' working. A detailed account of the meeting will be found in another column.

		LEA	D	0	RE	8		
Date.	Mines.	Tons.	Pr	ice i	per	ton		Purchasers,
Mar. 20-Ro	man Grovels	100		£	15	6		Walker, Parker & Co.
- d	itto	50	*******		15	6		Panther Lead Co.
- d	litto	50		7	1			Runcorn Company.
	Itto			7	-			
25-[ale	of Man	60		9	2			Walker Parker & Ca.
	itto			g	2	8		Onick Barton & Co.
27-Va	n	80	*******	8	0	0		Shelden Bush & Co.
- d		40 .			7	0		Wasten San and Co.
_ d				0	-	U		weston, Son, and Ob.
- u	1110	30 .		0	8	0	*****	Mitto Walker, Parker, & Co. Quirk, Barton, & Co. Sheldon, Bush, & Co. Weston, Son, and Co. Adam Eyton and Son.
		BL	EN	DI	G.			
Date.		Tons.	P	rice	per	to	n.	Purchasers.
Mar. 27-Va	n	50		£ 2	4	0		Vivian and Sons.
—Tar	kerville Grea	t Consols	1:-			-		***************************************
	Bog			4	2	0		ditto
	ditto	90		9		-	*****	ditto

RISLEY, STOCK AND SHA AND MINING SHARE DEALER, 38, CORNHILL, LONDON, E.O. ESTABLISHED 1860. OHN SHARE BROKER.

BANKERS: LONDON and WESTMINSTER, Lothbury, B.C.

R A C E J. T A Y L O R,
ven Years Assistant-Secretary to the Port Phillip and Coloniat
Gold Mining Company (Limited).

38, GREAT ST. HELEN'S, LONDON, E.C.,
STOOK, MINING, AND MISCELLANEOUS DEALER. ORACE

BUYER or SELLER of the following:—

100 Aimada and Tirito.

50 Bratsberg.

50 Flagstaff District.

50 Flatsberg.

50 Frontino.

50 Frontino.

50 California Gold.

100 Gunnisiake (Clitters).

100 Chile Gold.

100 Gunnisiake (Clitters).

100 Colombiun Hydraulic.

100 Colombiun Hydraulic.

100 Colombiun Hydraulic.

100 Devon Friendship.

100 East Blue Hills.

100 Nouveau Monde.

100 Litter & South Caradon.

100 Devon Friendship.

100 East Blue Hills.

200 Nouveau Monde.

100 Victoria Gold.

100 Organos.

TOLIMA (Champion Silver Mine of the World) still recommended.

BANKERS: CENTRAL BANK OF LONDON (Limited). ESTABLISHED 1874.

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ARE BUYERS OF LEAD ASHES, SULPHATE OF LEAD, LEAD SLAGS, ANTIMONIAL LEAD, COPPER MATTE, TIN ASHES, &c and DROSS or ORES containing COPPER, LEAD, AND ANTIMONY

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See Selected List published by S. Jamss, 14, angel-court, London, B.C.

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30 Bedford United.

100 Pennant.

5 Cook's Kitchen.

10 Devon Friendship.

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100 South Darren.

101 East Oardon.

50 Devon United.

102 Frongoch.

103 Frongoch.

104 Frongoch.

105 Cook's Kitchen.

106 Goignan.

107 Frongoch.

108 West Corbor.

109 Goid Coast.

100 Goid Coast.

100 Goid Coast.

100 La Plata.

100 La Pl 50 Co. So. Austra. Cep.
40 Denver Gold.
50 Eberhardt.
30 Flagstaff District.
120 Frontino.
100 Gold Coast.
50 Hoover Hill.
50 Indian Consolidated.
100 Indian Consolidated.
100 Indian Consolidated.
100 Indian Consolidated.
100 La Plata.
50 Kapanga.
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50 Lisbon Berlyn.
30 Montana.
30 New Humma.
50 Nouveau Monde.
50 Organos.
20 Orita.
15 Port Phillip.
15 Panulcillo.
35 Ruby & Dunderberg.
16 Richmond.
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10 Tolima A.
20 Transvaal Gold. Grogwinion. Home Mines Trust. Killifieth. Killifieth.
Kit Hill Gt. Consols.
Kitty St. Agnes.
Mounts Bay Consols.
New Kitty.
New Caradon.
Old Gunnislake.
Old Shepherds.
Phomix United.
Pennant.
Pennant.
Pennant.
Pinnen of Wales.

100 Asia Minor.
St Mkankoo.
Ol Bratsberg.
100 Oankim Bamoo.
100 Cartago.
25 California Gold.
40 Callao Bis.
50 Chile.
20 Chontales. 20 Kitty St. Agnes.
60 Mounts Bay Consols.
20 New Kitty.
30 New Caradon.
100 Old Gunnislake.
100 Old Shepherds.
20 Phoenix United.
30 Pennant. 20 Phoenix United. 30 Pennant. 50 Prince of Wales.

30 Pennant.
30 Wictoria Gold.
35 West Callae.
35 West Callae.
36 Western Andes.
36 Western Andes.
37 Western Andes.
38 James is a Buyer or Beller of any of the above Shares.
39 To save extra correspondence, and to prevent disappointment, buyers will please state the best price they will give, at d sellers the lowest price they will accept, subject to reply by wire or return of post, whichever preferred.
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31 O'Nictoria Gold.
32 Western Andes.
35 West Callae.
35 West Callae.
36 Wictoria Gold.
35 West Callae.
36 Western Andes.
36 Western Landes.
37 Western Landes.
37 Western Landes.
38 Western Landes.
39 Western Landes.
39 Western Landes.
39 Western Landes.
30 Western Landes.
30

MINING OFFICES, 1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON, E.C.

ESTABLISHED UPWARDS OF FORTY YEARS.

MESSRS. WATSON BROTHERS, in referring to their public Circular in the Mining Journal, would also observe that they BUY and SELL SHARES at the nett market prices of the day in all well-established and respectable Mining Companies; also in English and Foreign Funds, Railway Stocks, &c.

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SPECIALLY FLEXIBLE ROPES, &c., &c.

are is given to ensure the Ropes being constructed in the way most suitable for their particular work, and by the use of specially selected and tempered metal, the greatest possible uniformity

Notices to Correspondents.

Eas: Devon Consols Copper Mine.—As no reports are given through your columns of the East Devon Consols Copper Mine, and as the shareholders do not appear to receive any communications as to the progress of their property, it would be quite interesting to receive some news of its welfare, Perhaps some of your readers in the neighbourhood of Buckfastleigh can tell us whether there is anything doing at all at the mine.—X. Y. Z.

DEVON AND CORNWALL CHINA-CLAY COMPANY.—Can any correspondent state where the mines or works of this company are situated, and who is connected with it—especially who are the bankers, as a reference is required. It is believed to have temporary offices somewhere near Oxford-street, Manchester, Also when was the company registered, and what was the date of registration.—J. E. C.

—J. E. C.

WHEAL BENNY.—The suppression of his reply to Sir Charles W. Craufurd is considered by Mr. H. Reynolds to be one-sided and unfair. We regret that he should be dissatisfied; but cannot allow personal or ungentlemanty language from any correspondent. If Mr. Reynolds were to inform a judge (as he writes for publication in this week's Journal) that "when they have said the lease has been forfeited I have given them the lie direct," it would scarcely be accepted as conclusive evidence of title, or ensure a verdict in his favour. As to his statement in his letter marked "not for publication," and addressed to the Editor—"I lwas almost ready to curse you, and have no more to do with you for ever and ever," our only reply is—Do so at once if it will give you pleasure; it will not disturb us.

MEASURING AND VALUENG GROUND.—"Fatuus" should have sent his name:

when you are ever ann ever, our only reply is—Do so at once if it will give you pleasure; it will not disturb us.

MEMBURING AND VALUENG GROUND.—" Fatuus" should have sent his name; but as a reply to his enquiries may be interesting to others we give it:—1. If the lode be yielding 10 per cent. ore, and is reported worth 2 tons per cubic fathom, it means 2 tons of the ore, and not of fine copper.—2. No calculation can be based on the statement "the 144 west is worth 16 tons of good ore and mundic per fathom "unless you know that the captain invariably quotes per cubic fathom, as many quote for the whole height and width to be carried.—

2. If the agent is "going to ascertain how much metallic mineral can be got out of a given space," he will probably get out the stuff and dress it.—4. Reading books will not much assist you to comprehend these matters, as there is no uniformity in the expression used by miners, or in the method of reporting.—5. If the "agents puzzle the shareholders at the meetings and by the reports," it is probably because the agents are equally puzzled to know what to say to keep the shareholders in good humour until good luck gives them a discovery.

[Received,—"C. S. R."(Alma): We cannot interfers in the vertice of the content of the captain in the same of the captain in the captain of the captain of

discovery.

eccized,—"C. S. R."(Alma): We cannot interfere in the matter, but have handed all the documents, including that marked "private," to the senior member of the first firm mentioned, and requested him to communicate with you—"J. H. J."—"J. D. A." (San Diego): Next week—"W. B." (Sait Lake City): The numbers have been sent, and will no doubt reach you in due course—"Mackay and Revolution: "The secretary sates that every letter received at the office has been fully answered.

THE MINING JOURNAL,

Bailway and Commercial Gazette.

LONDON, MARCH 29, 1884.

PREVENTION OF ACCIDENTS IN MINES.

PREVENTION OF ACCIDENTS IN MINES.

According to the Home Secretary there is some probability that the final report of the Royal Commission on Accidents in Mines will be issued during the present year. Recently, it is stated, the Commissioners have been actively engaged with experiments showing the value of different kinds of safety-lamps. It is now nearly five years since the Commission was appointed, so that there has been plenty of time given for going most fully into every operation and appliance connected with mining. But whilst the Commission has been at work something like 4500 of our mining population have been killed whilst following their occupation. Whether the report of the Commission will show the means by which the major part of the accidents that resulted in such a serious loss of life can be prevented in the future remains to be seen. It is, however, satisfactory to find that the class of accidents—if accidents they can be called—to which most attention has evidently been paid by the Commissioners, explosions of fire-damp, show a marked falling off during the last three decades, notwithstanding the vast increase in the production of coal and ironstone which has taken place. No doubt in connection with some explosion a defective safety-lamp has caused some mischief, for there are defects in some of the best known lamps that cannot be discovered by the most experienced cleaner and trimmer, But, as we are told by the President of the Middland Institute of Mining Pare discovered by the most experienced cleaner and trimmer. But, as we are told by the President of the Midland Institute of Mining Engineers, there is a method by which any defect in a lamp can be discovered. It is simply having a bath of gas and plunging the lamps into it, and this has turned out at the few places where adopted the most efficient means by which the safety of a mine can be promoted. But there is a considerable difference it may be said in the quantity. But there is a considerable difference it may be said in the quantity and quality of the gas in different districts, of which we hope to omething in the report alluded to, for one of the most eminent mining engineers draws our attention to the fact that where workings mining engineers draws our attention to the fact that where workings are prosecuted at depths below the general level of the water-bearing strata there is a more fertile production of gas to harass and endanger operations than where the opposite is the case. But, after all, the setting of timber—or the neglect of it—is the cause of a great many of our mining fatalities, and from the returns it appears that during the last 12 years 5426 persons were killed by falls of roofs and sides. roofs and sides.

It is to this class of fatalities to which we think attention should It is to this class of fatalities to which we think attention should be particularly directed. The point appears to be whether the timbering or propping should be performed by the miners or by deputies specially appointed for the purpose. Experience has shown that in the districts where such work is done by deputies the deaths from falls is comparatively trifling with those where it is done by the men, for the latter, knowing that timbering brings no money value in return for the labour expended, causes them to pursue vigorously different systems adopted, and was forcibly pointed out by Sir GEORGE ELLIOTT in his evidence before a Select Committee of the House of Commons. He said that the seams of Durham and North-umberland were not safer, so far as the roof was concerned, than they were in Glamorganshire. Yet taking the two systems of working, in the one where the roof was propped and maintained by the owners, as in the North of England, and in the other, where such was done by the miners, as in South Wales, he found for every 500,000 tons of coal worked out of Durham and Northumberland there was by the falling of the roof and coal 1:30 lives lost, whilst in South Wales for every 500,000 tons raised there were 3:20 persons killed. In the North there were persons of skill and character selected for the timbering, which required great judgment and experience, and such persons were responsible for the safety of the mines. Sir GEORGE further stated that by adopting such a system there would be a greater economy in human life by having it insisted upon than by any other matter connected with the Mines Regulation Act. This appears to be the best means yet suggested for the prevention of falls, the deaths from which are equal to those from all other causes combined, and to which our mines are liable.

MINING PROGRESS IN THE MIDLAND FIELD.

MINING PROGRESS IN THE MIDLAND FIELD.

In no part of the kingdom has such progress been made in the development of the minerals during the last few years as in the Midland mining field—Derby, Nottingham, Leicester, and Warwickshire. Derbyshire has not only the finest coal, but valuable deposits of lead, manganese, barytes, fluor-spar, calcspar, and vast deposits of limestone and building stone. Although the Midland field is far removed from a seaport, and but little of the coal is consequently exported, yet this, to some extent, is made up for by its proximity to the Metropolis, to which Derbyshire sends fully two-fifths of all the coal that reaches there by railway, whilst Nottinghamshire and Leicestershire send another fifth. Most of the coal raised in Warwickshire is consumed in that county. The field, as a whole, is second only to that of South Wales, and may be said, for all practical purposes, to be inexhaustible. It may also be said with respect to it that no other district sends so much of its produce away owing to the limited home requirements. Last year, the production of pig-iron in the three counties was only 457,124 tons, which would require 1,000,000 tons of coal; whilst the manufactured iron would consume 300,000 tons of coal; whist the manufactured iron would consume 300,000 tons and 300,000 tons may be put down for household and miscellaneous purposes. This leaves a large quantity to be sent away, and, under such circumstances, and in seasons of depression, when other districts have shown a falling off, the Midland field has increased its production.

To some extent this is probably due to its geographical position. increased its production.

Warwickshire 1.066.741 647.540 Leicestershire 1,182,922 599,450 *****

Nottinghamshire, it will be seen, in the course of the 12 years, more than doubled its production, although there was no great addition to the number of the mines; the addition, however, included the Bestwood Colliery, a very large one, and that at Newstead, on the estate that belonged to Lord Byron, but now owned by Mr. Webb. The mining population for several years past, has not materially altered, for, as the production has gone on increasing, the output per man has gone on in the same direction, and even in the prosperous years 1872 and 1873, when wages were so very high, the miners in the Midland field do not appear to have adopted the same course as those in other districts who worked much less than they did before and after. In fact, they appear to have got a good deal more coal in the years named than they did in the three or four succeeding ones. Total 8,464,627 15,566,324

THE PROPOSED SCIENTIFIC AND TECHNICAL COLLEGE FOR WALES.—The Mayor and Corporation, and the burgesses generally of Swansea, are still making determined efforts to secure substantial Government aid in the establishment of a Scientific and Technical College for Wales, such College to be situate at Swansea—"the centre of the metallurgic industries of the whole kingdom." On Monday last, his worship the Mayor (Mr. R. D. Burnie) convened a special meeting of the council for the purpose of pressing the claims of Swansea for an educational grant from Government for establishing such Science and Technical College at Swansea. The greatest unanimity prevailed on the subject. The Mayor and several of the Councillors urged that whilst the Government had recognised the claims of both North and South Wales for educational grants of 4000% a-year each, and special efforts were being put forward to continue the grant of 4000% per annum also to Aberystwith College, that the claims of Swansea were completely ignored. Scientific and technical education was the great want of Wales at the present moment, and Swansea being situate in the very midst of the THE PROPOSED SCIENTIFIC AND TECHNICAL COLLEGE FOR tific and technical education was the great want of Wales at the present moment, and Swansea being situate in the very midst of the great metal and other manufacturing industries, afforded the most admirable site for such institution. During the discussion Mr. Councillor Freeman read a copious extract from what he termed "an able article" in "so high an authority as the Mining Journal" in advocacy of the establishment of a Scientific College for South Wales at Swansea, such article contending that neither the College at Cardiff, nor that at Bangor, could possibly afford the students the necessary practical scientific and technical education, they being far too remote from the great works of the district. The Mayor hoped the local press would quote the article just read by Mr. far too remote from the great works of the district. The Mayor hoped the local press would quote the article just read by Mr. Councillor Freeman from so high an authority on these questions as the Mining Journal, as it must forward the object which all had in view. The Council unanimously decided to take every step possible to bring the claims of such Scientific College under the notice of Government, and that a public meeting of the burgesses of Swansea should be called for an early date to strengthen the books of the surface of the strengthen the books of the second of the strengthen the books of the second of the second of the strengthen the books of the second o should be called for an early date to strengthen the hands of the Corporation in the matter.

Massive Steel Forgings.—Sir Joseph Whitworth and Co., of Manchester, have just completed several large steel forgings made out of their patent fluid pressed steel. One of these is a solid forging which is to form the tube or barrel for a 68-ton gun. The length of this forging is 34 ft. 7 in., and the greatest diameter 29 in. In the rough it weighed about 31 tons, and, finished for boring, 28 tons. Amongst other gun material Messrs. Whitworth are making hoops for 100 to 110 ton guns, and some of these weigh as much as 13 tons after they have been rough turned. The other large forgings just zh turned. The other after they have been rough turned. The other large forgings just completed include two marine crank shafts. One of these is for the Admiralty and is a three-throw crank shaft made solid. The length administy and is a toree-throw crank shart made soild. The length of the shaft is 28 ft. 5 in., the outside diameter 17 in., with a hole through of 8 in. diameter, and the cranks have a throw of 24 in., or equal to 4 ft. stroke. The weight of the crank was about 19 tons in the rough and is 12½ tons finished. The second marine forging is a spare single-throw crank for the City of Rome. This is a built-up shaft in five pieces shrunk together. The length of the shaft is 13 ft., diameter 25 in., and of collar 45 in.; there is a 14-in. hole in the body and an 8-in. hole in the pins. The crank has a 36-in. throw, and weighs 21 tons.

MANCHESTER ASSOCIATION OF EMPLOYERS AND FOREMEN. The winter sessional meetings of the above society were brought to a close on Saturday last, when a very interesting lecture "On the Explosion of Boilers and other Vessels," was delivered by Mr. E. B. men, for the latter, knowing that timbering brings no money value in return for the labour expended, causes them to pursue vigorously that for which they are paid, and the neglect in consequence is frequently fatal. In South Wales there are more fatalities from falls romagnes than in any other part of the kingdom, and from the last pearly returns it appears that whilst in South Durbam there was one death for 246,223 tons. This appears to be the result of the last part of the money to the money to the Manchester Technical School, and there was a very numerous attendance, not only of members, but of engineers specially interested in the subject of the lecture. Mr. Thos. Ashbury, C.E., the Engineer to the Midland Steam Boiler and Inspection Company. The meeting was held in the large lecture has had more than 20 years' experience in the management of probability for the subject of the lecture. Mr. Thos. Ashbury, C.E., the Engineer to the Midland Steam Boiler and Inspection Company. The meeting was held in the large lecture has had more than 20 years' experience in the management of probability in the company's funds. The settle-treeted in the subject of the lecture. Mr. Thos. Ashbury, C.E., the find management of the Manchester Technical School, and there was a very numerous attendance, not only of members, but of engineers specially into the as a wastantial investment in the company's funds. The settlement of the Association, occupied the chair. Mr. Marten the President of the Association, occupied the chair. Mr. Marten at Hawkes Bay has been selected as the opening field for opening the chair of the Association, occupied the chair. Mr. Marten at Hawkes Bay has been selected as the opening field for opening the chair of the Manchester Technical School, and there was a very numerous at the company in the Colonian to the Colonian that the company is in New Zealand, to act as managing director in the Colonian that the large lecture has had more than 20 years' experience in the management of the Manchester Technical S MARTEN, C.E., Chief Engineer to the Midland Steam Boiler and

heads of locomotives, furnaces, Cornish, Lancashire, and plain cylinder boilers. A series of models were also shown illustrating the effect of internal pressure in altering the shape of boilers, and a number of interesting experiments were also made by Mr. Marten to explain the various causes of the explosion of boilers. During the course of his remarks Mr. Marten observed that when steam was only used as a condensing medium boilers frequently collapsed by the vacuum within them if they were not provided with an inlet valve. The most usual cause given for explosions had been shortness of water, which was supposed to cause sudden undue pressure, and another more or less supposed cause of explosions was electricity. Sir W. Armstrong had thought that this electricity was formed from the act of evaporation, as he sent details of an observed case at Seghill to Prof. Faraday, who properly explained it as the result of the friction of globules of water carried at great velocity by the steam and rubbed against a wooden jet. As an illustration of some of the fallacies with regard to boiler explosions, Mr. Marten showed that electricity—one of the supposed causes—could only be produced by carefully prepared special appliances, and that, therefore, it was a mistake to attribute explosions to this cause. A hearty vote of thanks was passed to Mr. Marten for his lecture, and the interesting models and experiments by which it had been illustrated.

THE COPPER TRADE.

THE COPPER TRADE.

During the quarter ending March 31, 1884, the quantity of copper ore, the produce of Cornwall and Devonshire, sold at the Cornish Ticketing, was 9361 tons, which contained 587 tons 2 cwts. of fine copper, and realised 27,746L 9s. Od., being equal to an average of 2L 19s. 3d. per ton of ore, and 47L 5s. per ton of copper in the ore. The average produce of the ore sold was 6½ per cent. The ores sold at the Cornwall Ticketings were—

Date. Standard. Prod. Price. Per unit. Tons. Pine cop. Amount.
Jan. 3...2 63 4 0... 756... 23 10 0... 9s. 10½d. 981 ... 69t. 13c... 2 3,444 12 0 ... 17.9 1 8 0... 6½d... 21 5 6... 9 9 9½... 1916 ... 115 4 ... 5,700 12 6 ... 17.9 1 8 0... 6½d... 21 5 6... 9 9 3... 2871 ... 171 15 7,951 13 6 Psb. 2 1 92 5 0... 6 ... 215 6 ... 9 3 ... 2871 ... 171 15 7,951 13 6 Mar. 6 ... 89 13 0... 6½d... 2 18 6 ... 9 3 761 ... 48 1 ... 2,218 14 6 ... 2 9 ... 39 1 1 0... 6½d... 2 18 6 ... 9 4 ... 2033 123 19 ... 5,223 7 6

9,361 .9,883 10,023 9,147 ...587 2 ...611 1 ...610 18 ...572 7 27,746 9 0 31,011 4 0 32,303 18 0 30,110 9 0 ...2381 8 ... 595 7 ... 609 12 £121,177 .. 30,294 .. 33,829 38,414

quarter. The figures for previous quarters were-Quarter ending December, 1883...... Quarter ending September, 1883 Quarter ending June, 1883 Corresponding quarter March, 1883 ... 86 10 ... 94 13 ... 220 4 ... 83 13 ...

SCOTCH PIG-IRON WARRANT MARKET.

SCOTCH PIG-IRON WARRANT MARKET.

Mr. W. Wilson (Glasgow, March 27) writes: —The warrant market continues remarkably steady, and a fair business is doing, but no one speaks hopefully of the immediate future. The shipping season is now opening, and makers' deliveries are larger in consequence. There will probably be no further accumulation of stocks for a time at least, as the reduced consumption of iron, which there is in forges and foundries, has been met by a reduced production. Shipments are fair for the week, but do not compare favourably. One furnace has been put out at Carnbroe, making the number blowing 93: 421 tons were put into store here last week, while 40 tons were taken out at Middlesborough. Business was done during the past week at the following prompt cash prices:—

Thursday, March 20. Priday, March 21.

42/54, 42/5, 42/54

Monday, March 24.
"42/5 ½, 42/5 ½, 44/6,½
Thursday, March 27.
42/5, 42/5½
33. 1382. 1881.
7/7 ... 47/10 ... 49/2
11 ... 107 ... 121
,646 ... 629,599 ... 538,721 1834, 1839, 42/6 ... 47/7 3 ... 111 594,322 ... 585,646 Price of Scotch Warrants, March 24
Furnaces in blast in Scotland do...
Iron in store at this date
Shipments of Scotch pig-iron for a week ending March 22
Do. since beginning of year
Price of Middlesbro, No. 3, March 24
Furnaces in blast Middlesbro' dist.
Middlesbro' Iron Imported at
Grangemouth, week ending
March 22 11,575 ... 12,421 ... 12,375 ... 12,263 ... 135,170 ... 110,882 ... 42/6 ... 38/3 ... 117 ... 120 117,310 ... 123,401 37/3 ... 40/3 104 ... 119 37/3 ... 104 ... 4,520 ... 5,590 ... 4,095 ... 6,645 66,400 ... 56,231 ... 72,456 ... 67,786

LAND AND LOAN COMPANY OF NEW ZEALAND.

In all young and undeveloped countries the business of money In all young and undeveloped countries the business of money lending is particularly lucrative, the landowners and traders possessing so many opportunities for the profitable employment of money, with the assured prospect of being able to repay it within a comparatively short time, and at the same time to secure permanent advantage to themselves; and New Zealand forms no exception to the general rule. There is a rich and promising country needing development, both of its mineral and industrial resources, and for this purpose more capital than is at present available is absolutely essential. The financial companies connected with New Zealand are returning handsome dividends, and now the Land and Loan Company of New Zealand, with a capital of 1,000,000L, in shares of 5L each, is to be added to the number. The chief objects for which the company is formed are—the lending of money upon security of mortgages of freehold, leasehold, and other property in New Zealand, and making advances against produce or consignments. The purchase, management, and re-sale of freehold or leasehold lands in New Zealand, and of stock and praduce in connection therewith, and the land, and of stock and produce in connection therewith; and the conduct of a general agency business, comprising the management of funds which may be sent to New Zealand for investment, the colection of dividends and other moneys, and the care of consignments to and from New Zealand, and their realisation, with power to advance against such consignments.

The success which attends the mortgage business of such undertakings is almost proverbial, and with regard to the investment de-partment of the present company, it is remarked that the increase which is taking place in the value of land in New Zealand is remark-

which is taking place in the value of land in New Zealand is remarkable, and the success attending the careful management of sheep farms has long been fully recognised.

The class of properties proposed to be purchased are those only partially improved and stocked. With care and attention the rough ground can quickly be brought into cultivation and sown down with English grasses, thus quickly increasing the carrying capacity of the land-and its value. At the same time, by judicious selection of the breed of sheep and cattle the flocks and herds can be improved, and the yield of wool, beef, mutton, and tallow increased both in quality and quantity. Town reserves will be made upon such properties as and quantity. Town reserves will be made upon such properties as may be acquired suitable for the purpose, and portions of the estates laid off in agricultural blocks of limited area for sale or lease to intending settlers. The success which has attended the exportation of meat in a frozen state from New Zealand to Europe cannot fail to effect beneficially its pastoral and agricultural pursuits. The surplus fat stock of the colony can now always be presented in a good market at comparatively small cost and in thoroughly marketable form. For high class breeding stock there will for many years be considerable demand in the next ideal for the considerable demand in the north island for the purpose of utilising land as it is acquired from the natives, and to provide for the increasing capabilities of tracts of country already in the course of being brought into cultivation.

all enterprises of this kind much, of course, depends upon the In all enterprises of this kind much, of course, depends upon the management, and in this respect the company appears to have been particularly fortunate, having arranged with Mr. F. C. Fulton (who has had more than 20 years' experience in the management of properties in New Zealand) to act as managing director in the Colonies, to make a substantial investment in the company's funds. The settlea contract has been made to take over a property in this district recently acquired by Mr. Fulton for 34,895l. It consists of 7976 acres of freehold land, fenced and sub-divided, and about half laid down in English grasses, which will form a starting point, and the company propose to buy other properties in the same district as opportunities occur. There are about 9000 sheep on the above property which will after inspection be taken over by the company at a valuation. Similar investments which may be proposed in future, and receive the approval of the Colonial board, will be referred to the London board, and will require their confirmation, so that every care seems to have been taken to ensure success by securing efficient management on the spot, and ample control at home.

MINERAL RESOURCES OF THE TRANSVAAL.

MINERAL RESOURCES OF THE TRANSVAAL.

Although sufficient time has not elapsed to permit of any results being published in connection with British enterprise in the Transvaal, there can be no question that the information received of the successes of private explorers and gold miners has given rise to a much better feeling than was manifest a few months since concerning the attractions of the region as a field for enterprise. This change of view is in a great measure attributable to the laudable energy and sound practical judgment displayed by the executive of the Lisbon-Berlyn (Transvaal) Gold Fields, who in the comparatively few weeks since the company was formed have done as much real work as has been performed by some other officials in the same number of years. The Lisbon-Berlyn properties, as stated in the original prospectus, contains upwards of 18,000 acres. The progress made with reference to sending out the machinery and organising the staff has been very great, and the arrangements for early working may be said to be practically completed. The most complete mining plant obtainable has been sent out, and a most efficient staff engaged by the company through the good offices of Prof. Price, the well-known expert of San Francisco. The whole of the staff will be on the gold fields about the end of next month, and the machinery in about one month later, and it is confidently expected that within three months afterwards the first shipment of gold will be made.

With regard to the 'property itself, its merits were referred to when the company was formed; but it may be worth while to repeat a few of the leading facts. It will be recollected that Mr. John N. Stuart, F.R.G.S., supplied a very elaborate report, with drawings and diagrams; he places the whole vein-matter, ore and slate worked together, as of the average worth of 21.14s, per ton—a gross value of over 25,000,000l. sterling; he estimates that the cost of working, mining, and milling, including maintenance of mills, would not exceed 12s. a ton, and a

ceed 12s. a ton, and at this rate he reckons the net profit would be upwards of 19,000,000l, sterling. In reference to the annual profits, he states that, looking to the abundance of water on the Lisbon estate, there should be a net profit of 1400l, per day, or 420,000l, per year of 300 working days, adding that this is based upon employing one-half the water-power, and that, if the whole were used, the revenue would be doubled. This would be from hydraulic working on the alluvial soil alone. With reference to quartz crushing with 450 heads of stamps, he says there would be a profit of 2840l. a day, equal to 852,000l, per annum, allowing only 13 dwts. of gold to the ton of quartz and slate crushed together, the quartz alone running to many ounces per ton. Mr. Stuart reports that he made a large number of tests on the ground, the lowest of which showed over 10 czs. to the ton, and running up to about 1000 czs. per ton. The reports of Messrs. John Webster and J. J. Hamilton leave no doubt that Mr. Stuart has rather under-estimated the value of the property that Mr. Stuart has rather under-estimated the value of the property that Mr. Stuart has rather under-estimated the value of the property than otherwise, and the conclusions arrived at by these gentlemen are no less encouraging. Mr. Webster says, that with the expenditure of capital and the application of skill and efficient management in the development of these farms, they will become, in a comparatively short period, one of the richest gold mining properties in the world. And Mr. Hamilton, in concluding his report says:—When I consider the extent of ground covered by these farms, the dissemination of gold throughout the alluvial soil, the permanency of the main quartz lodes, the exceptional richness of the smaller leaders, the constant supply of water, and the unrivalled facilities for working. I can safely assert that, so far as my knowledge goes, there is

the constant supply of water, and the unrivalled facilities for working, I can safely assert that, so far as my knowledge goes, there is no property in the world which will afford greater, more secure, and more lasting profits on the capital which may be employed in the proper development of its resources.

But the evidence which will, perhaps, be of more weight with the public is that of Mr. W. H. Penning, since he explored and wrote upon the region before the present company was even in contemplation. In his report he has entered into a very careful geological history of the formation of the ground, and states from assays made by himself, in each case 28 lbs. being collected, that the result was 2 ozs. 1 dwts.—6 ozs. 8 dwts.—and by a third assay 2 ozs. 4 dwts., the by himself, in each case 25 lbs. being contected, that the result was 2 ozs. 1 dwt.—6 ozs. 8 dwts.—and by a third assay 2 ozs. 4 dwts., the average of the three being 3 ozs. 11 dwts., and this after having rejected all nuggets and visible gold from the ore used; adding these, he says, 4 ozs. to the ton is obtained. He goes on to say that, one of the most valuable features upon this property is the quantity fwater that can be utilised at a great elevation. And he concludes by saying, taking into consideration the proved extent of ground containing anytigroup leaders their average yield and probable ex-

containing auriferous leaders, their average yield and probable ex-tension, the value of the alluvial ground in connection with a suffi-ciency of water, and the existence of a large and constant supply of ciency of water, and the existence of a large and constant supply of water at a great elevation, I have no hesitation in declaring that "Waterfall" is an extremely valuable gold mining property. The attention which the public have already given to the enterprise may be judged of from the fact that already 100,000 shares have been applied for and alloted to 1045 shareholders; the directors are now inviting subscriptions for the remainder of the first issue—50,000 shares—and from the very satisfactory statement which Baron Grant was enabled to make at the meeting reported in another column of to-day's Mining Journal, it will be surprising if there be any delay in closing the lists. This issue will give the company an abundance of working capital, whilst the fact that 50,000 shares are reserved for future issue is an ample guarantee for ability to meet reserved for future issue is an ample guarantee for ability to meet

NORTH MEXICAN MINING COMPANY.

From our very cradles we have heard of the fabulous riches of Mexico and Peru in gold and silver. In our younger days our boyinsh imaginations were excited by the thrilling adventures of Cortez in Mexico, of the Spanish galleons laden with untold wealth in silver which formed the prizes of our great commanders of bygone days when at war with Spain. Even of late years we have heard of schemes to raise capital to explore the depths of the ocean to find the silver supposed to have gone down with the wrecks of those galleons. All this untold silver, however, came from the lower part of Mexico, which was more accessible to the early adventurers.

of Mexico, which was more accessible to the early adventurers.

That these immense riches in silver were not mere fables is amply onstrated by the records of well-known travellers, such boldt and others. Amongst these was the late Sir Henry Ward, who was Her Majesty's Charge d'Affaires in Mexico, and who made an official inspection of the mining centres for the purpose of obtaining statistical information in his official capacity. The results of his labours appear in two volumes, now very scarce, which opened up visions of untold wealth in the interior of Mexico which could

scarcely be believed. It is a remarkable thing that, rich as the mines of Guanaxuato were (which, it should be mentioned, now belong to the United Mexican Mining Company) of Zacatecas, St. Luis, Potosi, &c., all writers, from Humboldt downwards, agree in stating that the richest writers, from Hamboldt downwards, agree in stating that the richest mines exist in the Northern States of Mexico. Sir Henry Ward, in his journey, fully satisfied himself that this was the case. Throughout his book he repeatedly calls attention to the remarkable richness of the mines in the North, and gives reasons why those mines were not worked—principally owing to the inaccessibility of the country. After enumerating the disadvantages of the pure silver being sold at nearly 50 per cent discount in the North and the jim. being sold at nearly 50 per cent. discount in the North, and the impossibility of getting supplies, he states—"Few mines, however rich could be worked under these disadvantages, and they sufficiently account for the preference which was given by the old miners to ores that yielded 7 and 8 marcs of silver on the monton of 36 quintals, if

within 70 or 100 leagues of the capital, in lieu of exploring the tantalising wealth of the North, where, although 15 and 20 marcs were yielded by the same quantity of ore the whole profit was absorbed by usurious charges on everything else."

If an example were needed of the remarkable richness of the mines about Chihuahua, despite these difficulties, it will be in the cathedral in that city, which was built out of a fund raised by a tax of 1 real on every marc of silver (that is 1-64th) obtained from one mine. This cathedral cost \$800,000, and we cannot do better than quote the Times Correspondent's account of the manner in which it was built:—"The cathedral was 100 years building. Instead of having been hoisted the stones were all carried to the top by mules. A hill was built up to the wall at the back, and on this the animals made their ascent. As the walls grew, more dirt was hauled on to the incline, and so the task was pursued to the end. When all was finished it took between two and three years to remove the hill which had been thrown up, and which by that time (as the grade could never be heavy) had extended back into the city." In the face of such remarkable mines even the Comstock and Richmond are dwarfed. This was candidly admitted by Professor Kimball in the American Journal of Science and Art, in one account he gives of these mines.

Practically until recently the mines in Chihuahua were 800 miles distant from any port or means of communication, and everything had to be transferred on muleback across the mountains. The opening distant from any port or means of communication, and everything had to be transferred on muleback across the mountains. The opening of the Mexican Central Railway, which was recently cabled across, has effected a complete change in this part of Mexico, and it is no secret that our cute Yankee friends have been regarding the northern part of Mexico with longing eyes for some considerable time past, and that they have been buying up some of the best of these wonderful old mines. Fortunes, doubtless, will be made and lost in this wonderful mining district as in every other country, but if due care and judgment be exercised in embarking we do not see but what results may accrue to investors which will outshine all other mining enterprises hitherto known. The richest mines in Cornwall were all originally discovered by the ancients, but in their primitive mode of working they were compelled to abandon them when their riches began, and when steam-engines were invented those who reworked them made enormous fortunes for their reworking. There is no reason whatever why under the same circumstances the same thing should not occur again in Mexico. Our forefathers generally had the ability to discover the richest spots, for the simple reason that unless mines were extraordinarly rich with their imperfect mode of working they could only attack the very richest and most important lodes. One could scarcely believe the extraordinary mode in which the Mexican mines were formerly worked, and all these riches from Mexico obtained, were it not actually stated by such undoubted authorities. Sir Henry Ward states that "even a horse-whim would have excited almost as much astonishment as a steam-engine itself," and that "the mines were worked as long as the water could be

authorities. Sir Henry Ward states that "even a horse-whim would have excited almost as much astonishment as a steam-engine itself, and that "the mines were worked as long as the water could be raised without inconvenience by two or three tenateros with leathern buckets, and abandoned when the discharge of this duty became too laborious." These remarks are induced by a perusal of the prospectus and accompanying documents of the North Mexican Silver Mining Company, which contains soms remarkable statements and extracts worthy of perusal by everyone connected with mining. It is seldom that a collection of facts so instructive is found in a prospectus, and it is suggested to all readers of the Journal that whether they intend investing or not a perusal of the documents accompanying the prospectus will prove both entertaining and instructive.

AMERICAN RANCHES, AND BRITISH CAPITALISTS.

THE CONSOLIDATED LAND AND CATTLE COMPANY.

The consolidated land and cattle company.

The profitable character of ranching in the United States was very fully referred to in last week's Mining Journal, and when a company undertakes a profitable business with well-selected ranches, purchased on equitable terms, and under the control of such a board of directors as that which will manage the Consolidated Land and Cattle Company, it will be, indeed, unaccountable if creat success be not speedily attained. With Lord Thurlow, the Earl of Strathmore, the Earl of Mar and Kellie, Sir G. M. Grant, and Mr. John McCulloch, with the assistance of a 'practical land agent, as directors, there is certainly a guarantee for integrity and judgment which should satisfy the most scrupulous investor. There are, moreover, two able consulting directors in Texas, and the officers of the company are all well-known men of business. The company, which is incorporated with a capital of 750,000l. (two-thirds of which is to be at present issued) is formed to purchase and consolidate the well-known Wiren, Hittson, Millsap, and Milliken, Mann, Jackson, and Elkin cattle herds and ranches, consisting of 100,000 acres of free-hold lands, 75,500 head of branded cattle, and the calf crop of 1884, estimated to number 20,000 to 25,000 head; also 1000 horses, 2000 hogs, ranche implements, equipage, improvements, &c., all in the State of Taxas, U.S.A. and to carry on the business of raising cattle.

hold lands, 70,500 head of branded cattle, and the call crop of 1884, estimated to number 20,000 to 25,000 head; also 1000 horses, 2000 hogs, ranche implements, equipage, improvements, &c., all in the State of Texas, U.S.A., and to carry on the business of raising cattle and other live stock in the United States of America. The directors have obtained the option to acquire all or any of the said ranches as they may see fit; and that they have a good field for enterprise is evidenced by the fact that eight or nine companies similarly engaged in the same region are paying dividends varying from 8 per cent. to 201 per cent, and averaging 12 per cent. per annum.

It might not unnaturally be asked how it happens that enterprises yielding such satisfactory profits are brought into the market, and the reply is that it is precisely by diminishing the percentage of fixed charges that the companies are enabled to make such handsome profits. The object of transferring the herds to a single company is, says the prospectus, to lessen the proportionate expenses, extend the improvements, and develope the herds, which, combined, will form one of the largest, as they are already well known to be among the best graded, herds of any magnitude in the State. The ranches proposed to be acquired by this company are admirably adapted for consolidating into one large property, because they dovetail into each other, there being no other herds or ranches between them. They occupy both sides of the Double Mountain Forks of the Brazos River for a distance of about 60 miles, and so noe of the State Fork of the Brazos River for 30 miles; and, as one of the rado City, on the Texas Pacific Railway, which line has in the last few years opened up such facilities at to enormously increase the demand for stock of all kinds from this district.

The reports upon the property are highly encouraging, and as the purchase takes effect from March 1 the company will have the advantage of returns at once. The calf crop for the present year estimated to number between 20,000 and 25,000 head, will, according to the terms of purchase, be the property of the company without any payment being made for them, thus increasing the number of the herd to about 100,000 head, and reducing the average cost to about \$18.75 per head; and it may be mentioned that in the herd there are about 10,000 beeves which will be ready for market this autumn, which, if sold for \$35 per head, would be \$10 per head more than is being paid for them. Mr. Robert Bruce reports that " under proper management he has not the slightest doubt that the purchase of the stock and property on the above-mentioned six ranches, at the figures named to me, must be a good investment, and that a handsome persentage on capital invested may be paid year by year, while at the end of a few years the stock will be increased in number and value

on the whole, a very good lot. The range is ample, and the condition the cattle are in at present denotes that feed is abundant. He thinks there is no doubt that water is plentiful all the year round. The crop of steers for next year will be a large one, and he considers the whole property to be worth the price asked for it. Under good management it should pay good dividends, and, as it is a going concern, no great amount of money should be spent in improvements. Mr. M'Cullooh says:—"Taking this range as a breeding one pure and simple and selling yearlings at present prices, \$18 to \$22 a head, the dividend would be 20 per cent., but as beef will more likely hold or advance on present prices than range cattle, I could not counsel the change unless with a provision for fattening the steers, a precaution worthy the consideration of the directors of any cattle company devoted entirely to breeding." One noticeable fact in the reports is that they were made at different times, by parties entire is strangers to each other, and while they never met or consulted with one another, yet their reports agree in the main, and differ but little from the description and facts given by the vendors. The concern altogether appears to offer an unusually good field for enterprise.

HISTORIC DERBYSHIRE COPPER MINE.

The historic celebrity of the Ecton Mine was very fully referred to in The historic celebrity of the Ecton Mine was very fully referred to in the Mining Journal when the company at present engaged in working it was formed, and it was then observed that at the beginning of the century Mr. John Maise, an authority of his time, states that the general produce of the Ecton Copper Mine is massive, rich, yellow copper ore, frequently in contact with galena and blende, but specimens occur of purple, steel blue, brown, or brass yellow colours. The ore yields from 40 to 60 per cent., and is sometimes vitreous and black. The famous vein of copper ore called Ecton Mine lies near Hartington, being what the Germans call stock work, and the only one in this kingdom. It is situated from the surface to the bottom in a blackish-brown limestone, the strata of which are in the greatest confusion, extremely irregular, and running in all directions.

The mine was probably worked at a very early period. It is one of the deepest in Europe, and it is now worked to the depth of 220 fms., or 1320 ft. During the time it produced the greatest quantity of ore the profits were immense. This work seems very different from the generality of veins; it has the appearance of large cavities or openings in the stratum filled with copper and other ore. This Ecton Mine is extremely productive, and at one time employed more than 1000 people. The rich ore was in amazing ore. This Ectoh Mine is extremely productive, and at one time employed more than 1000 people. The rich ore was in amazing large heaps, being in some places 70 yards broad, in others not above 10. It was smelted at Cheadle, where coals are more plentiful; and the copper is greatly esteemed, and much in request for boilers and similar purposes, being more duetile than any other.

Since the present Ecton Copper Mines Company commenced operations, although scarcely more than three months has elapsed, the progress made has been most encouraging and from the special report.

tions, although scarcely more than three months has elapsed, the progress made has been most encouraging, and from the special report, published in another column, of Mr. T. Collingwood Kitto, who has inspected the property, the prospects really appear to be extraordinary. In all these cases the value of the report depends upon the ability and experience of the reporter, and his acquaintance with mines of the same class. The application of this test to Mr. Kitto is conclusive; not only has he had an usually wide experience in general mining, of this the readers of the Mining Journal will require no testimony, but his connection with the famous Burra Burra copper district of South Australia, and the immense experience he gained there fully entitles him to be regarded as an Burra copper district of South Australia, and the immense experience he gained there fully entitles him to be regarded as an authority lupon copper mining matters. The Burra Burra Mine, which for many years was considered the richest copper mine in the world, was said to bear no resemblance to any other lode or deposit of copper ever seen up to that time, and was in the shape of an inverted cone. Some of the Ecton deposits are not unlike it in form, while others are in the form of enormous pipes from 40 to 80 fms. in length, and almost as broad as they are long; and some having been successfully followed down to a vertical depth of over 1200 ft., their durability is placed beyond a doubt.

But favourable as is this opinion it is obvious that, in Mr. Kitto's connion, the Ecton Mine is comparatively in its infancy, for he states

But favourable as is this opinion it is obvious that, in Mr. Kitto's opinion, the Ecton Mine is comparatively in its infancy, for he states that in his opinion the ore bodies hitherto found are subordinate to some monster deposit. This opinion may very naturally excite surprise amongst those who have been in the habit of searching for copper in the older rocks. I am quite certain, however, that no person will question the fact that the geological formation of the Ecton Mines is unique among English copper mines, not only on account of its great richness, but from the general characteristics of the formation; and it is the nearest approach to anything of the kind which I have ever seen n connection with some of the great copper centres of Australia.

kind which I have ever seen n connection with some of the great copper centres of Australia.

As to the work already done, Mr. Kitto's statements are in the highest degree satisfactory. He says that as regards the company prosecuting their explorations in the direction of the great central deposit, he looks upon the various galleries and shafts which have been constructed as worth to the present company fully 10,000%. The exploration of Ecton Hill is not only interesting in a scientific point, but he believes, if judiciously carried out, it will lead to the realisation of large profits. The particular characteristics of the formation render it absolutely necessary that no spot of ore, however small, should be treated with indifference, as it is highly probable that by following a string of ore no thicker than the blade of a knife it may suddenly open out into a large chamber of ore which will produce tens of thousands of tons. For full details upon the will produce tens of thousands of tons. For full details upon the matters mentioned reference may be made to Mr. Kitto's report itself. Enough has been said to show that at Ecton there is an excellent field for remunerative enterprise.

VICTORIAN YEAR-BOOK.—The tenth annual edition of this valuable and interesting volume, prepared by Mr. H. H. HAYTER, C.M.G. Government Statist of Victoria, has just reached this country, and ranches proposed to be acquired by this company are admirably adapted for consolidating into one large property, because they dove-tail into each other, there being no other herds or ranches between them. They occupy both sides of the Double Mountain Forks of the Brazos River for a distance of about 60 miles, and both sides of the Salt Fork of the Brazos River for 30 miles; and, as one of the best means of securing the water privileges, 100,000 acres of free-hold land have been selected in good positions, thus practically ensuring the future possession of the range, which is about 3000 square miles of the finest grazing lands in the States, and estimated to be capable of maintaining easily 120,000 head of cattle. The freehold of the remainder of the range can be either leased or purchased at a moderate price should the company desire to do so later on, the expediency of which the directors will take into their consideration, and it should be noted that no payment will be made to the vendors in respect of any range rights. The position of the ranches with regard to markets is excellent. They are within 40 miles of Colorado City, on the Texas Pacific Railway, which line has in the sate of the reason of the range due to the vendors are the least criminal, Jews (17:89) being next to Protestants, and even Pagans (18:16) only furnish two criminals to the Catholic's as to engremously increase. and even Pagans (18:16) only furnish two criminals to the Catholic's and even ragans (1819) only furnish two criminals to the Catholics three; yet the Catholics are more attentive to church than any sect except Methodists, the average attendance at the principal service being—Catholics, 78,835, out of a population of 210,070; Church of England, 52,152, out of a population of 321,453. More than half the Presbyterian population attend church regularly, but do not stand high in the criminal scale. All such facts as these afford much food for thought; and therefore the volume (Melbourne; the Course) for thought; and, therefore, the volume (Melbourne: the Govern-ment Printer. London: George Robertson, Warwick-square) may fairly be commended as worthy of careful and attentive study.

The PIELER TESTING LAMP -Diagrams and details concerning the Pieler lamp for indicating small quantities of fire-damp were given in the paper read before the Manchester Geological Society by Dr. Le Neve Foster, F.G.S., which has now been issued in the Transactions of the society. Since the paper was read Messrs, Dickinson and Martin, through the kindness of Mr. Woodward, have had an opportunity of testing the Pieler lamp in the Newtown Colliery. The screen for sending air by brattice to the face having been removed until the air became impregnated with sufficient fire damp to show nearly \(\frac{1}{4}\) in. in the Davy lamp, the Pieler was then tried, and it showed about 2 in. of cap, thus proving the very great superiority of the Pieler for testing purposes. The tests were repeated with the Davy following the Pieler with the same result.

TECHNICAL EDUCATION-INSTITUTION OF CIVIL ENGINEERS.

ENGINEERS.

The annual dinner of the Institution of Civil Engineers, held at the Kensington Town Hall, on Wednesday evening, was of unusual interest not only as a social gathering, but because in the responses to the toasts facts were stated and opinions expressed to which it is impossible to attach too much importance. To indicate to a small extent the amount of knowledge and experience brought together at the dinner it may be mentioned that amongst the guests were—Dr. Acland, C.B., F.R.S. (President of the General Council of Medical Education); Prof. W. G. Adams, F.R.S. (President of the Society of Telegraph Engineers and of Electricians); Messrs. E. Bazalgette, H. Bazalgette, N. Bazalgette, Y. J. Beresford-Hope, M.P.; Prof. Bonney, F.R.S. (President of the Geological Society); Messrs. E. J. Bristow (President of the Incorporated Law Society), J. A. Campbell, M.P.; Lord Justice Cotton (Vice-Chairman of the Council of Legal Education); Colonel Donnelly, R.E.; Mr. E. Dunkin, F.R.S. (President of the Royal Astronomical Society); Archdeacon Farrar, D.D., F.R.S.; Lord Justice Fry (Vice-President of University College, London); Earl Granville, K.G. (Chancellor of the University of London); Mr. William Green; Rear-Admiral E. H. Howard (Vice-President of the Ordnance Committee); Prof. Huxley, LL.D., F.R.S. (President of the Royal Society); Mr. Herree Lover (President of President of the Ordnance Committee); Prof. Huxley, LL.D., F.R.S. (President of the Royal Society); Mr. Horace Jones (President of the Royal Inst. Brit. Arch.); the Earl of Kimberley (President of the Royal Inst, Brit. Arch.); the Earl of Kimberley (President of University College, London); Vice-Admiral W. G. Luard, C.B. (President of the Royal Naval College); Sir John Mowbray, Bart., M.P.; Dr. W. H. Perkin, F.R.S. (President of the Chemical Society); Sir Lyon Playfair, K.C.B., M.P., LL.D.; the Hon, W. H. Ravenscroft; Lord Reay, F.R.S. (Rector of the University of St. Andrew's); Mr. Robert H. Scott, F.R.S. (President of the Meteorological Society); Mr. Coleman Sellers, of Philadelphia; Prof. Marshall, Mr. Wickham, the Archbishop of York, and many others, about 200 in all, being present.

present.

Technical education was the subject which received the greatest prominence in most of the toasts—it is superfluous to say that the usual loyal toasts were first honoured—the first of those of a general character being "The Educational Department of the Army and Navy," in proposing which the CHAIRMAN (Sir J. W. Bazelgette, C.B., the President of the Institution) laid stress upon the educational advance of our services, and upon the necessity which these services were now under to invoke the aid of the sciences in order to ensure our holding our position among the nations. In replying, Col. Sir J. advance of our services, and upon the necessity which these services were now under to invoke the aid of the sciences in order to ensure our holding our position among the nations. In replying, Col. Sir J. STOKES, K.C.B., R.E., bore testimony to the efficiency of the training in electricity, chemistry, and photography now given at Chatham, and to the advance made within the last quarter of a century in military education, during which time no less than 12 schools of different kinds had been established. Alluding to the system of competitive examinations, he pointed out that the cadets under that system were apt to cram rather than to study, and the great efforts of himself and his colleagues in the educational department of the army were directed towards the encouragement of study rather than what was known as cramming.—Vice-Admiral Luard, C.B., replied for the Navy.—The President next called upon Earl Granville and Sir Lyon Playfair, M.P., to respond, not for the Houses of Lords and Commons, but for "Our Chief Seats of Learning of the United Kingdom," remarking that it was not to be inferred from this departure from ordinary usage that this Institution was not a loyal body attached to the Constitution of the country. The reason of the substitution of the toast was that the Institution was not a political body, but was an Institution more immediately concerned in the advancement of education and science. Schools were being established throughout the country for the technical education of artisans and tradesmen under the auspices of their esteemed Vice-President, Sir Frederick Bramwell, which promised to raise that class and to lead to improvements in the future as far in advance of the present as the present was of the past. But our public schools and universities formed the models upon which all other educational and to lead to improvements in the future as far in savance of the present as the present was of the past. But our public schools and universities formed the models upon which all other educational bodies were moulded. In them most of the great men of this country had been trained for the positions they filled in after life.

The manner in which Earl Granville handled the task of replying was the conscipt of the country of

try had been trained for the positions they filled in after life.

The manner in which Earl Granville handled the task of replying was thoroughly characteristic; he appreciated the occasion of the meeting, and was careful to combine the liveliness which should be kept up at a social gathering with the statement of well-considered facts. He had, he said, a reason for pleasure apart from the satisfaction of intercourse with the representatives of that great profession which during this century has changed the face of the earth, and by bringing together not only the people of the same nation, but of different nations all over the world, had done more than any other class to promote civilisation and commerce. He feared that in human life the motives of self-interest sometimes gave a certain fervour even to sympathies already existing, and as he happened to depend entirely upon the extraction of coal from the mother earth, upon metallurgy, and upon mechanical engineering, he was always glad to pick up hints from those who had to do so largely with those particular materials; and he was not certain whether, had he been left entirely to his own devices, he would not on this occasion have started the ball of discussion on such points as whether really the age of iron was quite past, whether hot or even cold blast had become obsolete, and whether he individually must crown all his hopes for the future on the making of steel, which he hoped to begin making next week, and which he would not attempt to conceal from experts such as those present was certain to be of the very highest quality. But the President had most justly raised the great question of education, which more than any other bore upon the future of this country.

Being called upon to answer for the principal seats of learning, he would briefly allude to the universities of the country. He had no

the future of this country.

Being called upon to answer for the principal seats of learning, he would briefly allude to the universities of the country. He had no personal knowledge with regard to Irish University life, but had the Duke of Abercorn, the Chancellor of the Boyal University of Ireland, been present, he would have been able to tell of the marvellous success of a university founded on those large and liberal principles which had governed the University of London; of the wonderful increase of students, which had doubled in the course of one year, of the great success of the female students, and, above all, of the success which so many of the male students had had in entering into the civil service of the country, and thereby creating a very powerful the civil service of the country, and thereby creating a very powerful bond of loyalty and solidarity between the two countries. (Cheers.) If the noble and learned earl the Chancellor of the historical Trinity College were there, he would be able to speak most favourably of the way in which it followed the even tenor of its course. If he were Lord Cairns he would be much tempted to take credit for that University for the members they sent to Parliament. He did not be-lieve there were two abler and more honourable men belonging to the great party to which he (Lord Granville) was politically opposed than Mr. Gibson and Mr. Plunket, who represented the University of Dublin; but it might cross his mind that this was a compliment which could not be addressed exclusively towards two members of an Irish University, for his friends a little to the right and left-Sir J. Mowbray and Mr. Beresford Hope-would be entitled to the same

compliment from a Tory peer.

Returning from Ireland to Cambridge, his lordship continued, that Returning from Ireland to Cambridge, his lordship continued, that with the inner life of Cambridge University, though he had the great honour of being a Doctor of Laws of that university, he was not well acquainted, but he might refer to the great movement of university extension there. He believed the pioneers at Cambridge of that movement were a few young men headed by Prof. Stuart, the occupant of the chair of applied mechanics in that university, who is an informal manner began suiving between some of the principle. in an informal manner began giving lectures in some of the principal industral centres of the North of England. A Northumbrian cipal industral centres of the North of England. A Northumbrian pitman had recently, in a few words addressed to one of these gentlemen, had said that since the visit of the Cambridge lecturers Cambridge, and all that belonged to it, had become a subject of the gentlemanly superintendent courteously consented, and the reporter said—"I want to ask you about the strike in the Drum Lumprestest interest to the workmen, who looked upon the class to whom the lecturers belonged with the most generous sympathy. Such words were a complete answer to the reproach which formerly might have been addressed to the older Universities—that they kept themselves coldly aloof from the life of the nation at large. Coming to Oxford, he was afraid they would think him something of a pluralist when he said he was a Doctor of Civil Law of that University. But

he was more closely connected with that University. Exactly 50 years ago he took his degree there at an age which in these degenerate times was that at which young men began their college education: Oxford, however, was a very different place of instruction now from what it was when he took his degree there. If a man so highly cultivated and eloquent as Lord Salisbury, its Chancellor, were present he could give a most satisfactory account of its extension of the means of education in science, and how Oxford had robbed from the London University their Professor of Physiology, from Cambridge a man of the greatest distinction in experimental physics, from the United States one of their greatest mathematical teachers, and from Glasgow the most distinguished botanist it possessed; while they were even now reflecting where they could best purloin a gentleman for the professorship of engineering which they were about to create. The unconscious victim of this contemplated spoliation might be in

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London University, over which he (Earl Granville) had the honour to preside, was of so practical and business-like a character that he dared say some present were hardly aware, or had forgotten, that it had a purely poetical origin. In the 17th century not only had the poet Milton written on the development of learning, but that very ingenious poet, Abraham Cowley, had written a long essay proposing that there should be erected, within three miles of London, a College of Experimental Philosophy. Among other details, he suggested a gallery of statues of inventors. Such a gallery now would require to be of very noble proportions. He gave as the cost of the college 4000?, a-year, and notwithstanding the difference in the value of money, that was at a duty of his Royal office to "encourage his subjects of all classes and of all denominations, without any distinction whatever, to follow a course of regular and liberal education." This was at a time when the illustrious Assem believe a single word he said.

believe a single word he said.

After the amusing and instructive reply of Earl Granville the speeches of those who followed him appeared comparatively tame. Referring to the present competition of the world having made it necessary to promote a knowledge of science, Sir Lyon PLATFAIR observed that he would not then say anything about the Scotch Universities; he would merely state there were two classes of institutions in the country, the old Universities and the new colleges which had risen in all the centres of industry. The country had now become awakened to the importance of science, and in Manchester. Sheffield. Leeds and other great towns new colleges of chester, Sheffield, Leeds, and other great towns new colleges of science had arisen. The old colleges had entirely altered their mode of teaching, and all the Universities had now established mode of teaching, and all the Universities had now established excellent laboratories of science. But the new colleges had not as yet that good method of teaching which was so necessary to promote success. This country must before long feel the competition of America in the industries, and if that competition was to be stemmed technilogical schools, such as that of Boston in the United States, must be established. There was nothing in this country to compare with that college, though he hoped the college in course of erection at South Kensington would, when finished, compare favourably with it. Not only were colleges in connection with science required, but they were also required to meet the peculiar local wants of the different districts. In some places colleges of science had been erected without a due understanding of local capabilities. It was most important that they should educate labour and enable the labourer in the future to understand what he was doing in order to meet the competition of the world;

labour and enable the labourer in the future to understand what he was doing in order to meet the competition of the world; recollecting the old proverb that the wise man walks with his eye in his head, but the ignorant man walketh in darkness.

Replying to the toast of "Literature and Science," Archdeacon FARBAR responded in eloquent terms for the former, remarking that it seemed to him that the work of the literary man was even more necessary than the work of the engineer. The power of literature was as much needed in the world as the power of science. And on behalf of Science, Prof. Huxley said there was one educational aspect which was extremely instructive and important, and that was behalf of Science, Prof. Huxley said there was one educational aspect which was extremely instructive and important, and that was the insensible and almost unconscious education which was carried on upon the masses of the people by the great work of engineers and mechanicians. Whilst engineers were by their works adding to the wealth and increasing the prosperity of the country, they were also tending everywhere to cherish, stir, and develope the scientific spirit, by surrounding the people from their birth to their death with the symbols of the scientific faith.—The Archbishop of Yobk proposed "The Health of the Chairman, and Success to the Institution of Civil Engineers," and a brief response by Sir JOSEPH BAZALGETTE brought the proceeding to a close.

THE MONTANA COMPANY.

THE MONTANA COMPANY.

The success which has attended the company's operations in Montana under the able superintendence of Mr. George Attwood, F.G.S., is already known to the readers of the Mining Journal, but they will be glad to learn that the importance of the discoveries made are quite as fully recognised in the neighbourhood of the mines as by the shareholders themselves. The Butte (Montana) Miner of March 8, under an attractive heading—"The Drum Lummon. The Ledge is Struck in the Maskelyne Tunnel," says:—All the old residents of Butte will remember with what intense interest they waited, and watched, and prayed when the Alice Company was running the 500 ft. level. Helena has experienced the same sensation in waiting for the development to be made by the Maskelyne tunnel. The ledge has been tapped, and the Helena is jubilating over the result. There is no one who does not share in its joy. The footwall was enbeen tapped, and the Helena is jubilisting over the result. There is no one who does not share in its joy. The footwall was encountered last Saturday night, and the tunnel yesterday morning had out into the lead several feet. The ore at this depth—600 ft beneath the surface—was found to be free milling, and much superior in value to that in the old workings, some 400 ft above. Knowthe deep interest which our citizens feel in the Drum Lummon, ing the deep interest which our citizens reel in the Drum Luminon, and all matters concerning it, a reporter last night determined to go to the fountain head for information—in other words, to interview Mr. Attwood, the superintendent of the mine. This at first thought may seem a rather difficult thing to do, when it is considered that that gentleman was at Marysville, 20 miles from Helena, and a snowstorm raging between. But the telephone was called into service, and in a moment Mr. Attwood in his office at Marysville was informed that a reporter of the Independent wanted to interview

at from 20 to 30 days

MEXICAN MINES AND RAILWAYS.

The development of the immense mineral resources of Mexico would be greatly facilitated by the extension of railways has been so constantly urged in the Mining Journal, that it is unnecessary to point out that Mexican railway enterprises are especially worthy of the support of those engaged in mining in that country; but whether a second charge will be acceptable unless to the holders of the First Mortgage Debenture Stock is a question which depends entirely upon the character of the guarantee offered that the interest will be regularly forthcoming. The price at which amplications are invited in the statement of the guarantee offered that the interest will be regularly forthcoming. mortgage Decenture Stock is a question which depends entirely upon the character of the guarantee offered that the interest will be regularly forthcoming. The price at which applications are invited is 91 per cent. for 266,500*l*. Second Mortgage Six per Cent. Debenture Stock with interest payable half-yearly. The loan will be redeemable at par by means of a cumulative sinking fund of 2 per cent. per annum (sufficient for the redemption of the loan in about 24 years), by annual drawings on March 1, the amounts drawn to be paid off on April 1 following. The first drawing will take place in March, 1885. This stock will form the second charge on all the property and revenues of the company already mortgaged as security for the 2,000,000*l*. First Perpetual Mortgage Debenture Stock, which is the only prior charge to which the stock now offered will be subject. The present issue, producing 240,000*l*. net. is required to replace

only prior charge to which the stock now offered will be subject.

The present issue, producing 240,000l. net, is required to replace money taken from current receipts to pay for additional rolling stocks and stores, and the Mexican Government subvention, being specially applicable so far as necessary to such outlay, will be primarily employed towards the service of the loan, which is, therefore, well secured. The company's share of the subvention, which has ten years to run, is now about 80,000l. per annum, and although the payments to the company, which were regularly received during many years, fell greatly into arrear during the past year, they were still sufficient to meet the interest and sinking fund of this issue, independently of its mortgage on the general property and revenues independently of its mortgage on the general property and revenues of the undertaking. The price is payable by instalments extending to the end of May.

OURO PRETO GOLD MINES OF BRAZIL .- Two of the French directors and Mr. Wendeborn, the engineer of the company attached to the Passagem Mine, has, says La Liberté, been present near Pallanza (Italy) at experiments made with the pyritous ores from that mine. The amalgamation, which has never been tried on this ore, was completely successful, and the result of this first trial was 2.05 ozs. was completely successful, and the result of this first trial was 2 05 ozs. of gold, about 213 frs. (81. 10s.) to the ton of crude ore, thus obtaining 68 per cent. of the free gold contained in this ore. This process will be immediately applied in the mines in Brazil, where until now the treatment in use had given only 45 frs. (11. 16s.) of free gold to the ton. Letters from Ouro Preto of Feb. 12 last announce that the works of opening the vein at Passagem now assure a minimum extraction of 50 tons per day. In a short time when the apparatus for this new mode of treatment of pyritous ore shall be eracted, the single mine of Passagem will produce sufficient to give large returns on the whole capital of the company.

WHEAL BENNY.—As to the company having a lease direct from the Duchy for the property from which it takes its name there can be no question; the document has been brought to the *Mining* Journal office for inspection. The secretary and Mr. Brewis state that sales of the shares have been effected and transfers registered at the prices quoted, and conclude, from the excellent reports received from the mine, that it will speedily take its position in the Dividend List. They, moreover, attribute the fact that the shares are unknown in the market to the circumstance that the company is an almost private one. Hitherto poly sales to the public appear to are unknown in the market to the circumstance that the company is an almost private one. Hitherto only sales to the public appear to have been effected, but sellers of small numbers could probably find purchasers through one or other of the gentlemen mentioned. When the concern reaches the dividend-paying condition it will be easy to silence all opponents, as the publication of accounts, showing how the dividend has been earned, will be conclusive. The report of Capt. Cocking in another column is favourable. It should be stated that only a few small fields are leased from Mr. Lang, the greater portion of the property being from the Duchy. The grant from Mr. Lang to the company is admitted to be indispensable, so that they have the fullest confidence that no claim against them can be maintained, whatever dispute might exist between Mr. Lang and other tained, whatever dispute might exist between Mr. Lang and other

Mr. E. BREWIS (March 28) writes :- I trust the secretary of this Mr. E. Brewis (March 28) writes:—I trust the secretary of this company and myself quite satisfied you as to the fact of H.R.H. the Prince of Wales having granted the company the lease for 20 years of this valuable property. It can be readily understood from the discovery of mineral there and the dip of the lode being the same as Devon Great Consols, of which it is a continuation apparently westward, being less than ¾ of a mile from Devon Great Consols, that envious persons should like to sow discord. Both Mr. Warrington Smyth, M.A., and Mr Richards, the Duchy agent, whose father was the manager of the Devon Great Consols, concur as to the splendid lodes and mineral value of Wheal Benny.

WEST KITTY.—At the meeting on Thursday (Mr. John B. Reynolds in the chair) the profit of 3000% on the four months' working was distributed by the declaration of a dividend of 10s, per share. The dividend would, it was explained, have been 12s, but for the exceptional circumstance that five months' cost had to be charged against four months' returns. The report was the best ever presented, and the mine is a most prosperous one. There was a large attendance of shareholders, and of course the meeting was in every respect satisfactory. A detailed account of the proceedings will be found in another column.

NEW KITTY .- At the meeting on Wednesday (Mr. John B. Reynolds in the chair) there was a good attendance of shareholders. The agent's report was very favourable, and it was the unanimous opinion of those present that a satisfactory future was before the mine. The meeting was marked by singular unanimity; the next three months' working was provided for by the making of a call of per share. There were no liabilities due and unpaid, and balance in favour of the adventurers was 1631. 16s. 9d. account of the meeting will be found in another column.

BRITISH ENTERPRISE IN COLORADO.—Referring to the Donald-son and Champion mill, the Colorado Mining Gazette of March 15 says: "On the right of the road to Georgetown, where the Canyon narrows at Fall River, stands the large new mill of the English company. It was started about a fortnight ago with the view of testing machinery. Buckets are now running on the Hallidle tramway from the self-don mine a distance of 3000 ft. They carry 130 lbs., and when at full ad move at the rate of 200 ft. to the minute. This mill is one of the largest most complete in the region. Everything is thorough without extraor. The ore is handled but once, and that at the mine. Thence to the mill

and most complete in the region. Everything is thorough without extravagance. The ore is handled but once, and that at the mine. Thence to the mili it makes two ascents.

"The machinery consists of a Blake crusher, 15 stamps, five Frue vanners three Hartz jigs, &c. The stamps are fed by Tulloch's automatic feeders. There are two pairs of rolls and necessary sixing screens. The capacity is 40 to 50 tons aday. It is kept running night and day. The capacity can be largely increased as the output of the mine justify it, the buildings affording ample room for such enlargement. The distance to the Champion Mine, which crowns Bellevus Mountain, is 600 ft. No elevation intervenes between the mine and the mill. Therefore, the proposed tramway will be much easier to construct than that running to the Donaldson mine.

This mill is a model, which if copied would prevent the numerous ruins that cover the country. Perfect order prevails, and the machinery meets every expectation, there being no hitch in the running. Mr. James Thomas, the machinist of the mill, was obliging in his guidance of the Gasette representative through this creditable structure. The progress of this new enterprise in its

various workings is a benefit to t mining interests of Idaho Springs, and the successful operation of the new mill will tend to swell the output of the camp, and thus help all interested in or dependent upon the leading industry of Golorade.

PERCUSSIVE ROCK-DRILLS.—Some interesting details for facilitating the selection and management of rock-drills have been published by Mr. REGINALD BOLTON, of London. He states that the selection of a rock-drill should be made with a view to its economical and regular working in the particular kind of rock which has to be bored, and although drills vary very much as to merit, the following rules may be laid down to guide purchasers, with some or all of which a rock-drill should conform. A good drill should possess durability, the best quality of material in manufacture, simplicity, accessibility, resistance to wilful damage, proper lubricating arrangements, compactness, no dead point, rapidity in boring, and economy in power used. The amount of air required for rock-drills is for a 2½ in. cylinder, 28 cubic feet; 3 in. cylinder, 38 cubic feet; and for 3½ in. cylinder, 28 cubic feet; 3 in. cylinder, 38 cubic feet; and for 3½ in. cylinder, 60 cubic feet per minute. The formula for finding the weight of the blow given by a rock-drill is:—

where W=weight of piston and drill bit, L = length of stroke in feet, R = No. of strokes per minute, p = pressure of steam at end of stroke, and n = constant 000341. Mr. Bolton's ten rules for drillers are—1. Keep your machine well oiled.—2. Keep all nuts upon it tight.—3. Do not hammer your spanner to tighten nuts.—4. Do not use the hammer on any part of the machine.—5. Keep your carriage or tunnel-post as steady as possible; it is vibration that destroys machines quickly.—6. Start the drill hole slowly till a round opening is formed, then it will go straight.—7. Do not let the drill be hammering against its front cover: you can tell when it does so by the sound.—8. Blow air or steam through the hose before coupling it up to the drill.—9. Remember it is as much the man as the machine who does the work, and do your best for the machine, and if it is not the best try and make it do the best work. The details given leave no doubt that Mr. Bolton has given considerable attention to t

RAILWAY ENTERPRISE IN INDIA.—The activity in railway works in India continues, particularly in the North-West Provinces. The Government intend to try the experiment of sinking artesian wells in connection with these works, and have lately been shipping the necessary appliances for penetrating to a depth of 1000 feet. The apparatus has been supplied by Mr. William Speller, of London, well known as a manufacturer of the various implements required in operations of the kind. operations of the kind.

STUDENTS' SONGS.—The volume of music published under this title by Mr. Moses King, of Cambridge, U.S., and imported into this country by Messrs. Trübner and Co., of Ludgate-hill, are precisely such a reminder of College days as many who have long since ceased to dread the viva vocs or the papers would like to possess. The songs were collected by Mr. W. H. Hills (Harvard Class of '80), and the taste and judgment of the selection fully justifies the ready sale the several editions have met with.

GOLD AND SILVER.—Messrs PIXLEY and ABELL (March 27) write: Since our last, the arrivals of gold have been more moderate, and the totals received are as follows:—115,0001, from New York and 36601. from Brazil. The Bank of England has received of this amount 61,0001, and has had 10,0001, withdrawn for Buenos Ayres. The Peninsular and Oriental steamer Australia has taken 33,0002, in bars, to India. A further decline has taken place in the price of silver bars since our last, and the nearest quotation we can give to-day is 50%40, per ounce. The orders for India have not been so large as expected, owing to the rise in the value of money in the East; the Banks have, therefore, experienced some difficulty in getting remittances home, and are to a certain extent out of the market for a time. The arrivals, which have been of some importance, comprise—30,0004, from Valparaiso, 33,0004. from New York. and 24,7204, from the River Plate: total, 147,721. The La Plata takes 28,7304. to Brazil, and the Peninsular and Oriental steamers 103,0004. to India.

The quotations for bullion are:—Bar gold, fine, 77s. 9d. per ox. standard; bar gold, containing 20 dwts. silver, 77s. 10½d. per ox. standard; Spanish doubloons, 73s. 8½d. to 73s. 10d. per ox.; United States gold coin, 76s. 3½d. per ox. Bar silver, fine, 50½d. per ox. standard; bar silver containing 5 grs. gold, 51½d. per ox. standard; ox desilver, 54½d. per ox.; Mexican Dollars, 49½d. per ox. Quicksilver, 51, 10s.; discount, 3 per cent.

GAS SHARES.—The principal business in these shares, according to this evening's report of Messrs. W. L. Wennand Co., of the Stock Exchange and Finch-lane, has been:—Alliance and Dublin Consumers' Maximum 10 per Cent. 18%; Bahia, 10 per cent. Preference, 26% to 26%; Buenos Ayres New Limited), 11 to 12½; ditto, 6 per Cent. Debentures, 1893, 93 to 100½; Commercial 4% per cent. Debenture Stock, 111; Continental Union (Limited), Original, 34; European Now, 9%; Gas Light and Coke, A. Ordinary, 200½ to 262; ditto, p. 10 per cent. Preference, 222; ditto, G. 7% per cent. Preference, 159%; ditto, H. 7 per cent. Maximum, 143 to 143½; Imperial Continental, 192 to 156%; Monte Video (Limited), 16½ to 17; Ottoman (Limited), 4½ to 4½; Rio de Janeiro (Limited), 26½; South Metropolitan, A. 255 to 261; ditto, B. 213 to 214; ditto, Perpetual, 5 per cent. Debenture Stock, 125. Gas stocks all firm, especially Imperial Continental, which show a rise of 5 per cent.

INSURANCE SHARES have, according to this evening's report of

especially Imperial Continental, which show a rise of 5 per cent.

INSURANCE SHARES have, according to this evening's report of Messrs. W. L. Webb and Co., of the Stock Exchange and Finch-lane, been dealt in as follows:—Alliance British and Foreign, 37%; Alliance Marine (Limited), 21 to 21%; Oity of London Fire (Limited), ½ to ½/6; Commercial Union, 13½ to 18½; Eagle, 6½ to 53; Employers Liability Assurance Corporation (Limited), 2½ to 22%; Guardian Fire and Life, 59 to 63½; Indemnity Marine, 14½ to 14½; London and Provincial Law, 4½ to 4½%; ilitto, ditto, ditto Marine (Limited), 4½ to 4½/6; North British and Mercantile, 27 to 27½. Insurances very little doing. Fire companies flat on reports, which mostly show a loss for the year.

TRAMWAYS.—The closing prices of this evening, as quoted by Mr. WM. Ashort, of Tokenhouse-yard, are given in tabular form in the last page of the Journal.

HALLWAY AND GENERAL, MARKET.—Poforcing to the companies flat of the companies of the companies of the companies of the companies.

NM. ABBOTT, of Tokenhouse-yard, are given in tabular form in the less page of the Journal.

RAILWAY AND GENERAL MARKETS.—Referring to the course of business done to-day during official hours (11 to 3) Mr. Ferdinand R. Kirk Birchiniane, writes:—Opening: The markets are very flat for Grand Trunks and American railway shares. Trunk Seconds are only 68% to 68%, a fall of 1%, the Thirds being 25% to 25%, a fall of 5%. The Ordinary are quoted 11 to 11%. Eries are only 21 to 21%, and Readings 27 to 27%. Yesterday Eries were dealt in at 22%. Atlantic First Mortgage have fallen 1%, to 40%. Hull and Barnaley Railway, 4 to 4%. Great Eastern, 62% to 62%. Mining shares are fairly steady. At the West Ritty meeting, yesterday, a dividend of 10s, per share was declared. Bhares are quoted 12% to 13. Old Shepherds, 20s. to 22s.; Home Mines Trust, 14s. to 18s.; East Wheal Rose, 4 to 3%; Mounts Bay, 4s, to 6s.; Bratserg, 13% to 11%; Montana, 3% to 3%; Transvaal, 1% to 1%, ex new; United Mexican, 10% to 10%. Wheal Crebor, 1% to 1%.—Closing: A very decided raily took place in Grand Trunks soon after the opening, on the issue of the revenue statement for January and February, showing a profit of \$20,550 for these two months. The Seconds rose rapidly to 73%, now 73 to 73%, the Thirds being 31% to 31%, and the Ordinary 12% to 12%. American lines are from ¼ to ½ better, in sympathy. Richmond 3 to 31%; Mason and Barry, 18% to 18%; Rio Tinto, 18% to 18%; Copiapo 2% to 2%; Colorado, 2% to 2%; Frince of Wales, 8s. to 8s.; Victoria Gold, % to %.

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CHIEF MINING MANAGER—Mr. DWIGHT CRITTENDEN.
COMMERCIAL MANAGER—Mr. CECIL GUINNESS.
CHIEF ENGINEER—Mr. J. B. FRYER, A.M.I.C.B.

CHIEF ENGINEER—Mr. J. B. FRYER, A.M.I.C.E.

MINERALOGIST, GEOLOGIST, and ASSAYER.—Prof. M. FORSTERHEDDLE, M.D., F.R.S. Edin.: President of the Mineralogical
Society of Great Britain and Ireland; Past President of the
Geological Society of Edinburgh, and Professor of Chemistry in
the University of St. Andrews.

ASSISTANT ENGINEER—Mr. ALFRED ATTENBOROUGH,
C.E., A.S.I.

ACCOUNTANT—Mr. COSMO MORGAN.

AGENTS AND AUDITORS IN THE TRANSPART

AGENTS AND AUDITORS IN THE TRANSVAAL.

Messrs. SIMPSON and SCHAPPERT, Pretoria, Transvaal.

BANKERS IN THE TRANSVAAL.

THE STANDARD BANK OF SOUTH AFRICA (LIMITED),

Pretoria, Transvaal.

The directors of the above company are prepared to receive appliations for 50,000 shares, part of 150,000 shares to be first issued, as above stated.

above stated.

Under the prospectus issued in December last and up to this date 100,000 shares have been applied for and allotted, and are now held by 1045 shareholders.

The Lisbon and Berlyn properties, as stated in the original prospectus, contain upwards of 18,000 acres.

The progress made with reference to sending out the machinery and organising the staff has been very great, and the arrangements for early working may be said to be practically completed.

The most complete mining plant obtainable has been sent out, and a most efficient staff engaged by the company through the good offices of Professor Price, the well-known expert of San Francisco. The whole of the staff should be on the Gold Fields about the end

good offices of Professor Price, the well-known expert of San Francisco.

The whole of the staff should be on the Gold Fields about the end of next month, and the machinery in about one month later, and it is confidently expected that within three months afterwards the first shipment of gold will be made.

The prospectus and details of this company have been so recently before the public that the directors do not feel it necessary to repeat all that has previously been said. Any person desirous of having an original prospectus can obtain it from the secretary.

The directors content themselves with repeating that the properties have been reported upon by the following engineers, from whose reports short extracts are given:—

1. John M. Stuart, Esq., M.Soc. Arts, F.R.G.S.

2. John Webster, Esq.

3. John J. Hamilton, Esq.

4. W. Henry Penning, Esq., F.G.S., Memb. Soc. Arts.

With such a consensus of opinion it seems difficult to withstand the belief that in the Lisbon and Berlyn Gold Fields prospects of profit are opened out of unusual magnitude. It is not necessary that the full result shadowed forth by Mr. Stuart should be realised—viz., £19,000,000 sterling net, for if it did each £1 share would be worth nearly £40. If one-fourth of the results are attained, the properties would still be one of the most extraordinarily rich and profitable ever offered to the public for subscription.

Applicants for the present issue of shares, which are identical in all respects with those already issued, have the advantage of now joining the company, with the knowledge that all the machinery is made and en route for the properties, that the staff has landed, and should shortly be on the works, and that all arrangements are complete for early working, so that the usual preliminary period of suspense which is always so trying in mining matters has passed, and results may be confidently expected within a few months.

In the allotment of shares all applications up to 100 shares will be allotted in full, and those beyond (in the e

The printed copies of the reports referred to herein can be seen at the offices of the company. The contracts and the Articles of Association can be seen at the offices of the solicitors of the

company.

Forms of Application can be obtained of the secretary at the Forms of Approximation of the Company,

By order of the Board,

J

JOHN DAVIES, Secretary. 110, Cannon-street, E.C., March 25, 1884.

Enclosed is a verbatim report of the Statutory Meeting of Shareolders, held on Saturday, the 22nd instant, also extracts from South

African Newspapers relating to the gold fields, which will be of interest to intending applicants.

The LIST of SUBSCRIPTIONS was OPENED on WEDNESDAY, 26th instant, and will CLOSE on WEDNESDAY, 2nd April.

MINING PROPERTY AND PLANT FOR SALB. TO BE SOLD, BY TENDER, as a GOING CONCERN, the KIRK MICHAEL MINE.

The leasehold premises known as the Kirk Michael Mining Company (Limited), situate in the varish of Michael, in the Isle of Man, including the PLANT and MACHINERY, is offered FOR SALE BY TENDER.

The property is held under lesse for a term of 21 years from the 5th April, 1867, at a dead rent of £25 per annum, merging into a royalty.

Particulars and conditions of sale can be seen at the offices of Messrs, STAC-POOLE and 50x, Pinner's Hall, Old Broad-street, London, E.C., and of Mr. EDWARD ASHIMEAD, the Liquidiator of the said occupany, 2, Drapers' Gardens, London, E.C., where an inventory of the plant and machinery can be inspected. All persons tendering shall be taken to have full knowledge of the aforesaid particulars and conditions of sale, and to have their tender subject thereto, and shall be bound thereby.

Zenders to be sent to Mr. EDWARD ASHMEAD, 2, Drapers' Gardens, London, E.C., on or before the 14th day of April, 1884.

CLOSING OF THE LISTS.

THE LAND AND LOAN COMPANY OF NEW ZEALAND (LIMITED).

The LIST of APPLICATIONS for SHARES will be CLOSED on FRIDAY, April 4, for TOWN, and SATURDAY, April 5, for COUNTRY.

London, March 28, 1884.

THE LAND AND LOAN COMPANY OF NEW ZEALAND

(LIMITED)

CAPITAL £1,000,000, in 200,000 SHARES OF £5 EACH.

(with power to increase).

The liability of the shareholders is limited to the amount of their

FIRST ISSUE, 100,000 SHARES, upon which £1 per share will be called up as follows, viz.:—2s. 6d. per share on application; 2s. 6d. per share on allotment; 5s. on 1st May, 1884, and the remainder in sums of 5s. per share as required, at intervals of not less than two months between each call, of which at least 30 days' notice will be given. Of these shares the directors and their friends will take 44,000.

DIRECTORS.

JAMES ALEXANDER, Esq. (Redfern, Alexander, and Co., Australian and New Zealand Merchants), 3, Great Winchester-street,

E.C., Director, Bank of Australasia.
WILLIAM DUNLOP ANDERSON, Esq., (Anderson, Fairley, and Gray), 37A Mincing-lane, E.C., Director, Alliance Bank

LIFRED CHETHAM-STRODE, Esq., late Director of the Colonial Bank of New Zealand (Limited), and late member of Committee in New Zealand of the Otago and Southland Investment Com-(Limited)

pany (Limited). leut.-General RICHARD STRACHEY, R.E., C.S.I, F.R.S., Stowey

Lieut.-General RICHARD STRACHER, Strack, Strack, House, Claspham Common.

ROBERT THORBURN TURNBULL, Esq. (B. T. Turnbull and Co., Australian and New Zealand Merchants), 5, East India-avenue, E.C., Director, Imperial Property Investment Company (Limited).

WILLIAM CARR YOUNG, Esq. (of Bell, Harrison, and Co.), 11, Clement's-lane, E.C., and formerly of Dunedin, N.Z.

COLONIAL BOARD IN NEW ZEALAND.

MANAGING DIRECTOR IN NEW ZEALAND.

Esq., Napier, N.Z.

The following gentlemen will act provincially:—
The Hon. G. RANDALL JOHNSON, M.L.C., Wellington, N.Z.
GEORGE BEETHAM, Esq., M.H.R., Napier, N.Z.
EDWARD JOLLIE, Esq., J.P., Patea, N.Z.
BANKERS.
In London—The ALLIANCE BANK (Limited), and its Branches.
In New Zealand—The BANK of AUSTRALASIA, and its Branches.

SOLICITORS IN LONDON—Messrs.MERRIMAN, PIKE, and MERRIMAN, 25, Austin Friars, E.C.

AUDITORS—Messrs. TRIBE, CLARKE, PAINTER, and CO. 2, Moorgate-street-buildings, E.C. SECRETARY-M:. W. C. GOULD.

OFFICES-3, GREAT WINCHESTER STREET, LONDON, E.C. *These gentlemen will join their respective boards after the allotment of shares.

ABRIDGED PROSPECTUS.

The company has been formed with the objects stated in the Memorandum; briefly they are for the following purposes, viz.:—

1.—The lending of money upon security of mortgages of freehold, leasehold, and other property in New Zealand, and making advances against produce or consignments.

2.—The purchase, management, and resale of freehold or leasehold.

lands in New Zealand and of stock and produce in connection there-

lands in New Zealand and of stock and produce in connection therewith.

3.—The conduct of a General Agency business, comprising the management of funds which may be sent to New Zealand for investment, the collection of dividends and other moneys, and the care of consignments to and from New Zealand, and their realisation, with power to advance against such consignments.

Mr. F. C. Fulton (who has had more than 20 years' experience in the management of properties in New Zealand) is to act as managing director in the colonies, and will make a substantial investment in the company's funds.

ing director in the colonies, and will make a substantial investment in the company's funds.

Favourable arrangements have been made with the well-known firm of Messrs. Redfern, Alexander, and Co. (Australian and New Zealand merchants), who will attend to all the mercantile part of the company's business in this country, whereby considerable expense will be saved.

No promotion money is being paid.

Full prospectus and Forms of Application may be obtained at the offices of the company, as well as from the company's Solicitors, Bankers, or their Agents.

INVESTORS' PROTECTION AGENCY.

THIS AGENCY is ESTABLISHED to SUPPLY INDEPENDENT,
RELIABLE, and UNBLASSED REPORTS on all properties by experienced
experts, and should be consulted before investing.
This Agency will also SUPPLY MINING PLANT, MACHINERY, STORES,
&c., of the VERY BEST description at the lowest possible prices.
For terms and prices address—

JOHN L. M. FRASER, M.E., Manager, GREENFIELDS, WREXHAM.

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Every information relative to the progress of lode-tin mining in the Wild River district (termed by geologista "The Cornwall of Australia") can be eleated by communicating with the undersigned.

"Herberton Advartiser" Office, Herberton, September, 1822.

TO MINING ENGINEERS.

TO MINING ENGINEERS.

WANTED SHORTLY, a THOROUGHLY COMPETENT MAN
to TAKE CHARGE of a valuable MINING PROPERTY in
AMERICA. He must have unexceptional references as to ability and
practical knowledge of all the latest Mining Machinery. A liberal
salary is proposed, partly to be paid by results.
Address, stating references and past engagements, to LIDIARD and
Son, 41, Parliament-street, S.W.

WANTED, a MANAGER of a LEAD WORKS .-V A good Lead Smelter and Manufacturer, having a practical acquaintance with Sheet Rolling, Pipe, Red Lead, and Shot Making, accustomed to Assay for Lead and Silver, and to have charge of men. He should have a fair knowledge of accounts, and be able to check the working books of the concern; but would have nothing to do with the sales department. A house, but no other perquisite given: Replies must state salary, and enclose copies of testimonials. Address, "L. M.," MINING JOURNAL Office, 26, Fleet-street, E.C.

WANTED, a LONDON SECRETARY for a Cost Book Cornish
Tin Mine in good district, and exceptionally favourable working conditions. "Investor," MINING JOURNAL Office, 26, Fleet-street,

London, E.C.

THE KIRK MICHAEL MINING COMPANY IN LIQUIDATION. (LIMITED).

A LL PERSONS claiming to be CREDITORS of the ABOVE

OOMPANY are required, on or before the 14th day of April prox., to
SEND in their NAMES and ADDRESSES and PARTICULARS of their
CLAIMS, addressed to Mr. EDWARD ARRHEAD, the Liquidator of the Kirk
Michael Mining Company (Limited), 2, Drapers' Gardens, London, E.C., or, in
default thereof, will be EXCLUDED from the BENEFIT of ANY DISTRIBUTION made before such debts are proved.

Dated the 28th March, 1882.

EDWARD ASHMEAD, Liquidator.

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Makes a Speciality of the following Machinery suitable for Mines Collieries, &c.:—

THE "MULTIPLE ACTION" CRUSHER.

THE PATENT SECTIONAL CRUSHER in STEEL and Cast ron for FOREIGN TRANSPORT.

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eting—POSITIVE DRIVING.
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THE SMALL COAL IS DRIED AS IT PASSES OFF THE MACHINE.

Wet Coal Grinding Machines, Coal and Slack Elevators, &c.

Write for Catalogues.

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Mining Commissioner for the United States Monetary Commission, &c.

120, SUTTER STREET, SAN FRANCISCO.

Cable Address: "Delmar, San Francisco."—Branch Office: 81, Broadway,
New York.

References: Messrs, Lazard Brothers and Co., 69, Old Broad-street, London
ALEX. KERLY, Esq., 14, Great Winchaster-street, London;
and numerous others.

WM. BREDEMEYER,

M NING, CONSULTING, AND CIVIL ENGINEER, 56, EAST FIFTH SOUTH STREET, SALT LAKE CITY, UTAH,

United States Mineral Surveyor for Utah and Idaho, Notary Public, Goologica Examinations, Reports on Mining Properties; Surveys Mines, Railroads, and Conals, and Superintends the Workings of the same. Prepares Estimates and Plans for Opening and Working Mines. Expert on Mining Questions before the Courts. ourts. Address, P. O. Box, 1157, Salt Lake City, Utah.

A LEXANDER SMITH, M. Inst. C. E., CONSULTING A ENGINEER and VALUER of IRONWORKS,
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Eighteen years' experience in the Management of Gold and Copper Mines (both by Wet and Dry Reduction) in Central America, Venezuela, Hungary, Turkey, &c.

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ESTABLISHED 1868.

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77, BLOOMSBURY, OXFORD STREET; AND 2, UPPER BROOK STREET,
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A GENTS WANTED to PUSH FIRST-CLASS MACHINERY OILS, commanding a large and increasing sale. Liberal Apply, "Box 201," Post Office, Liverpool.

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GENTLEMAN of 27 years' practical experience in Gold, Silver, Copper, Tin, and Lead, is OPEN to RE-ENGAGEMENT. Sepies of testimonials on application to "W. G.," 9, Addington-Copies place, Liskeard, Cornwall.

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Only Mineowners need reply to "H.," MINING JOURNAL Office, 26, Fleet-street, London, E.C.

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MACSWINNEY ON MINES, QUARRIES, AND MINERALS. THE LAW OF MINES, QUARRIES, AND MINERALS. By R. F. MACSWINNEY, M.A., Barrister-at-Law. Lord Bramwell in the case of Love v. Bell, says:—"This is well put, indeed the subject generally and the questions that arise in this case are very well treated in MacSwinney on Mines, &c."

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In the Court of the Vice-Warden of the Stannaries. Stannaries of Devon.

IN the MATTER of the COMPANIES ACTS, 1862 to 1880, and of the RUSSELL COPPER MINE (LIMITED).

TO BE SOLD, under the direction of the Registrar of the said Court, on Wednesday, the 2nd day of April next, at Eleven o'clock in the forenoon, at the Russell Copper Mine, near Tavistock, within the said Stannaries, in One or more Lots, as shall then and there be determined on, and subject to such conditions as shall be then and there produced, the WHOLE of the undermentioned

MINING MACHINERY, MATERIALS, AND EFFECTS

MINING MACHINERY, MATERIALS, AND EFFECTS

Of and belonging to the said company:—
ONE 7 horse PORTABLE ENGINE; horse whim; shaft tackle; 40 feet shears, with pulleys; shaft bob; balance bob; one 4 inch square wrought shaft, with crane; tooth wheel bearing blocks; pitwork, about 30 tons, consisting of 8 and 9 inch pumps; 4 feet 6 by 6 matchings; 5 feet by 6 windbore; 9 feet by 6 ditto; 10 feet by 5 workings; one 5 inch doorpiece; one 6 inch ditto; three tram wagons; whim kibbles; winse kibbles; 80 fathoms 2 inch wire rope; 63 fathoms 2½ by 54 tramroad; 170 fathoms of railroad; several wood sheds; smiths' and miners' tools; new and old iron; borers; borer steel; Norway and other timber; and sundry other effects generally in use in mines; together with the account house and office furniture.

To inspect the above apply to the Bailiff in charge at the mine; and for further particulars at the office of the Registrar.

HODGE, HOCKIN, AND MARRAOK, Truro.

(The Solicitors having the carriage of the proceedings in the said Matter.)

Dated Registrar's Office, Truro, March 20th, 1884.

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THE ABOVE COLLIERIES, ST. HELENS, LANCASHIRE.

Bromilow and Co., being worked out, the WHOLE OF THE FLANT IS

NOW OFFERED FOR SALE, BY PRIVATE TREATY, and consists of—

ONE SINGLE HORIZONTAL WINDING ENGINE, 30 in. cylinder, Cornish
valves, 5 ft. 6 in. stroke, and 12 ft. drum for round ropes, and steam brake, by

Robinson and Cook.

Robinson and Cook.

HORIZONTAL ENGINE, 24 in. cylinder, piston valve, 4 ft. stroke, 18 ft. flywheel, spur wheels for pumping, 3 to 1 pumping wheel, 14 ft. diameter, dice
slide, rod, and L leg, by Coupe Brothers.

HORIZONTAL ENGINE, 18 in. cylinder, slide valve 4 ft. stroke, 12 ft. flywheel, spur wheel 9 in. on face, single pumping crank 10 in. square, 4 ft. stroke,
slide rod. L leg.

el, spur wheel 9 in, on race, single pumper.

ORIZONTAL ENGINE, 14 in, cylinder, alide valve 24 in, stroke, fly wheel, or control and drum. 9 ft. spur wheel and drum.

Also, BOILERS, and several other SMALL ENGINES, LOCOMOTIVE, MACHINERY, LATHES, PLANING and DRILLING MACHINES, TURNING and PITTING TOOLS, several large and small SAW BENCHES, THERE HUNDRED AND FORTY 6 and 8 ton WAGONS, NINETEEN RIVER FLATS (rigged), and about 2500 tons of good CANNEL, &c., &c.

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M. R. W. T. DAVEY, Auctioneer, Redruth, has been favoured with instructions TO SELL, BY PUBLIC AUCTION, at Tabb's Hotel, Redruth, or Tuesday, April 8th, 1884, at 5:30 for 6 o'clock in the evening precisely (free of commission), under such conditions as will then and there be

Redruth, on Tuesday, April 8th, 1884, at 5:30 for 5 o'clock in the evening precisely (free of commission), under such conditions as will then and there be produced and read, the PENHALLS MINE,

With the MACHINERY and MATERIALS, and the LEASES under which it is worked, as a going concern, in One Lot. The PLANT thereon comprises:—

ONE good 50 inch cylinder PUMPING ENGINE, with first piece of rod and caps, and TWO BOILERS, about 10 tons each, and fittings; balance and angle bobs, shears, and shaft tackle.

ONE 35 inch double acting ENGINE, with first piece, or one 35 inch double acting ENGINE, with first piece of rod and caps, and control of the control of the

and fittings.

Capstans, &c.; iron bob; dry tube.

Capstans, as,; frames, horses, lifters, &c.

Boiler tubes, plates, &c. (about 16 tons), sundry pulleys, &c.

Powerful winch, lifting jack, three shaft tackies, &c.

100 fathoms 11 inch rods and plates.

30 " 8" " 2"

Two 11 inch plunger poles, two 9 inch ditto About 50 fathoms of 14 inch pitwork, compi

mines.

The above plant is of good description, and in thorough working order.

The mine is situate near the town of St. Agnes, and adjoining West Wheal

Kitty, one of the best dividend-paying mines in Cornwall.

This mining property is in a great tin-bearing district, and has yielded immense quantities of ore, and formerly paid large profits to the shareholders.

Considering that the So fathom level is the deepest point, the water charges light, and the little work done at this point, it is very probable by sinking a little deeper, together with a moderate outlay, Penhalis would prove a great success.

success.

To view, apply to the Manager, Captain S. BENNETTS, on the Mine; and for further particulars to Messrs. Pikk and Son (the Pursers), Camborne; or at the offices of the Auctioneer, 4, Station Hill, Redruth.

PIT SINKING, WINDING COAL, PUMPING, &c. PORTABLE STEAM ENGINE FOR SALE, with two 91 inch cylinders, and link motion reversing gear also gear to wind

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A 9 H.P. VERTICAL STEAM ENGINE, with link motion reversing gear (winding drum if required).

A 6 ft. pan MORTAR MILL, VERTICAL ENGINE, and BOILER combined, on carriage and travelling wheels.

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IMPORTANT TO MINE OWNERS.

FOR SALE, a PLANT of ROCK-DRILLING MACHINERY. quite new, comprising—
ONE AIR-COMPRESSING ENGINE, with 12 inch cylinders,
3 and 3\frac{1}{4} in. rock drills, stretcher bars, &c., &c. Our Machines have
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TO BE SOLD (as a going concern), at Mostyn, on the banks of the Dee, a valuable COPPER WORKS for Smelting or for the Extraction of Copper and Silver by the Wet Process. In addition to the production of Copper, both Iron and Silver are recovered. The Works contain eight calcining furnaces heated by gas, condensing towers for acid, crushing mill, pumping engines, &c., 35 copper precipitating and silver deposit tanks, a refinery for smelting copper, siding to railway, collieries adjoining the works, ample room for extending, an almost unlimited space for deposit of waste.

For particulars apply, by letter, to the EYTON COPPER WORKS, Mostyn. N.W.

Mostyn, N.W.

THE VENTNOR GAS AND WATER COMPANY have FOR SALE ONE of BLAKE'S PATENT STEAM PUMPS. Size, steam cylinder 10 inch, water cylinder 6 inch, stroke 18 inch, with gun metal valves, air vessel, &c., &c., in thorough good working

TOR SALE, a first-class 60 in. cylinder CORNISH PUMPING ENGINE.

Apply to F. W. MICHELL and Co., Redruth, Cornwall.

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Tors SALE, a first-class 60 in. cylinder CORNISH PUMPING ENGINE.

Further particulars may Engineer and Secretary, Gas and Water Offices, Ventnor, Isle of Wight.—March 25, 1884.

OR SALE, the LLANHILLETH COLLIERY, the property of

TOR SALE, the LLANHILLETH COLLIERY, the property of Hexar Powerll, Esq., situate on the Western Vaileys Branch of the Great Western Railway.

The situation of this property is in one of the best positions in Monmouthshire, within 13 miles of Newport, the port of shipment, and commands a large area of minerals, both the Bituminous and the Steam Joai Messures. The collery is now in full work on the House Coal Messures to the Coal of the House Coal Messures and wearful pumping and winding engines and gear, suitable for winning and working the Steam Coal, a very large area of which, although not already taken, can be secured on very favourable terms.

For full particulars, apply to Messrs, Brown and Adams, Guildhall Chambers, Crumlen, near Newport, Monmouthshire.

STEAM BOILERS FOR SALE, SECONDHAND, with and without Galloway Tubes, single and double rivetted, working pressure of 60 lbs., 65 lbs., 70 lbs., and 80 lbs. steam pressure. VERY CHEAP.

FIVE BOILERS, 30 leet by 7 leet 6 inches diameter excellent order.

SIX BOILERS, 30 feet by 7 feet Galloway Tubes,
FOUR BOILERS, 28 feet by 7 feet
THREE BOILERS, 28 feet by 7 feet
FOUR BOILERS, 24 ft, by 6 ft, 6 in.

And other sizes in stock. Equal to new.

WINDING ENGINES and COLLIERY PLANT of every description, second hand, in stock. VERY CHEAP. Write to—

H. HELLEWELL AND CO., 4, NORTH CORRIDOR,
BOYAL EXCHANGE, MANCHESTER.

UNITED MEXICAN MINING COMPANY

(LIMITED).

3, Great Winchester-street Buildings, London, E.C.

Notice is hereby given, that a GENERAL MEETING of the company will be
HELD on WEDNESDAY, the 18th day of April, 1884, at Twelve at noon, at the
Guildhall Coffee House, Gresham-street, London, for the purpose of confirming,
as Special Resolutions of the company, the Resolutions passed at the meeting
of the company held on the 24th day of March, 1884, copies of which Resolutions
are set forth at the foot of this notice.

The Transfer Books will be closed on the afternoon of Saturday, the 5th day
of April, and reopened on the day succeeding the meeting.

By Order,

W. M. BROWNE, Secretary.

Dated the 25th day of March, 1884.

RESOLUTIONS

I.—That each of the existing shares of £30 each be subdivided into three shares of £10 each, and that the conditions contained in the Memorandum of Association be modified accordingly. Provided that in such subdivision the proportion between the amount which is paid and the amount which is upaid on each share of £30 each, shall be the same as in the case of the existing share of £30 from which it is derived, and consequently that each existing share of £30, having £39 123, 6d, paid up thereon, shall be represented by three shares of £10 each, having £9 17s, 6d, per share paid up thereon, and so in like proportion in cases where any greater or less amount than £29 12s, 6d, is paid up on any existing share.

each, having £9 17s. 6d, per share paid up thereon, and so in like proportion in cases where any greater or less amount than £23 12s. 6d, is paid up on any existing share.

II.—That the directors may issue and dispose of three shares of £10 each, having £9 7s. 6d. per share paid up thereon, in lieu of each or any of the £30 shares remaining to be issued and disposed of as a share having £23 2s. 5½d. paid up thereon, under Articles 2 and 3 of the company's Articles of Association, and may pay or appropriate out of the profits of the company a sum of 2½d. in respect of each three shares so issued or disposed of to make up the amount of £25 2s. 5½d. by the said Articles provided to be credited as paid up thereon.

III.—That, nowithtanding anything in Clause 7 of the company's Articles of Association, the directors may of their own authority make a call or calls to the extent, on the whole, of 10s, per share on each or any of the shares now authorised to be issued as having £9 7s, £d. each paid up thereon, so as to bring the same to an equality with the other subdivided shares of £10 each in the company, and such call or calls shall be payable at the times and places appointed by the directors, in the same manner and with the same consequences as to interest and powers of sele in default of payment as if made by the company under the said Clause 7, which shause (save as hereby modified as aforesaid) shall remain in full force.

THE LINARES LEAD MINING COMPANY
(LIMITED).

Notice is bereby given, that the HALF-YEARLY GENERAL MEETING of the shareholders of this company will be HELD at this office on THURSDAY, the 3rd April next, at One o'clock P.M.:—

To receive the accounts, balance-sheet, and reports of the directors, auditors, superintendents, and mining agents for the half-year ending 31st December, 1883. To elect two directors in the place of William Cox and H. D. Abercrombie, Esga, who go out of office by rotation. They are both eligible, and offer themselves for re-election.

To appoint two auditors for the ensuing year. Edward L. Agar and Richard Donagan, Esqa, who are eligible, offer themselves for re-election.

And for general business, as authorised by the Deed of Settlement.

By order of the Board,

H. SWAFFIELD, Secretary.

No. 5, Queen-street-place, London, E.C., 26th March, 1834.

THE FORTUNA COMPANY

THE FORTUME AND A COMMPANY

(LIMITED).

Notice is hereby given, that the HALF-YEARLY GENERAL MEETING of the shareholders in this company will be HELD at this office, on THURSDAY, the 3rd April next, at half-past One o'clock P.M.:—

To receive the accounts, balance-sheet, and reports of the directors, auditors, superintendent, and mining agents, for the half-year ending 31st December, 1883. To elect two directors in the place of William Cox and H. D. Abercromble, Esqs., who go out of office by rotation. They are both eligible, and offer themselves for re-election.

To appoint two auditors for the ensuing year. E. J. St. John and Richard Donsgan, Esqs., who are eligible, offer themselves for re-election.

And for general business, as authorised by the Deed of Settlement.

By order of the Board,

[H. SWAFFIELD, Secretary.

No. 5, Queen-street-place, London, E.C., 28th March, 1894.

THE ALAMILLOS COMPANY

Notice is hereby given, that the HALF-YEARLY GENERAL MEETING of the shareholders of this company will be HELD at this office, on THURSDAY, the 3rd April next, at Two o'clock F.M.:—

To receive the accounts, balance-sheet, and reports of the directors, auditors, superintendents, and mining agents, for the half-year ending 31st December, 1883. To elect two directors in the place of H. D. Abercrombie and Frederick W. Bigge, Esqs., who go out of office by rotation. They are both eligible, and offer themselves for re-election.

To appoint two auditors for the account.

nemselves for re-election.

To appoint two auditors for the ensuing year. Edward J. St. John and Richard lonagan, Esqs., who are eligible, offer themselves for re-election.

And for general business, as authorised by the Articles of Association.

By order of the Board, H. SWAPPEPLD, Secretary.

No. 5, Queen-street place, London, E.C., 26th March, 1884.

"E L C A L L A O GUAYANA, VENEZUELA. 32,200 SHARES.

Gold in bars produced in the month of January, 1884, remitte to Messrs. Baring Brothers and Co., London—12,941-17 ozs.

DIVIDEND distributed for each Share, 20 francs.

(Signed) A. LICCIONI, President.

VICTOR T. GRILLET, Treasurer. (Signed)

THE CANADA PACIFIC IRON AND STEEL RAIL COMPANY.

The Subscriber is desirous of opening communication with some party in England for the purpose of organising the above company.

One thousand acres of red hematite ore not far from the line of

Address, HUBERT C. JONES, Solicitor, Brockville, Ontario, Canada.

WESTMINSTER CONSOLS (LIMITED).

CHAIRMAN.

Lieut.-General W. WARDEN ANDERSON,

The January dividend has been paid. Dividend of 10 per cent. guaranteed for x months, payable July, 1884.

Messrs. Drummond, TREMAYKE, and Co. have SPECIAL BUSINESS in the

 Queen Anne's Gate, Westminster, S.W.
 Bankers: London and County Banking Company (Limited), S.W. VALUABLE FREEHOLD PROPERTY. By order of the

WALUABLE FREEHOLD PROPERTY. By order of the Mortgagee. TO BE SOLD or LET. STONE and LIME QUARRIES, ENGINE, STONE BREAKERS, WEIGHING MACHINES, TRAM LINES, &c., &c. Situate at Mold. For further particulars apply to Messrs. Eccles and DRMPSTER SMITH, Solicitors, Westminster Chambers, 3, Crosshall-street, Liver-

42 inch diameter of cylinder, fly wheel 28 feet diameter, spur wheel 17 feet 34 pitch, 11 segments, cast iron shaft 14 inch diameter, 21 feet beam. All in first-rate condition; can be seen working up to the 10th April.

For full particulars and where to be seen, address " Box 27," Post Office, Bury, Lancashire.

POR SALE, at BRENDON HILLS MINES:—
ONE 28 inch cylinder PUMPING and WINDING ENGINE, stroke
5 feet, with fly wheel, winding gear attached, with one 12 ton boiler.
Also ONE 25 inch cylinder PUMPING and WINDING ENGINE, stroke 9 feet
by 7, with fly wheel, winding gear attached, with one 10 ton boiler fitted with
Galloway tubes. Galloway tubes.
Any further information may be obtained from Capt. HEXBY SKEWIS, Brendon Hills Mines, Washford, Taunton.—Dated March 12, 1884.

TALC (HYDROUS SILICATE OF MAGNESIA) Brilliant White

Unctuous Feel, of an extraordinary fine quality, guaranteed ure, free from grit. Also ordinary sorts on hand. M. ELBOGEN, Alsergrund, Vienna, Austria.

BLATE.

TO BE DISPOSED OF, by order of the Executors, a VALUABLE PAYING PROPERTY in Germany in thorough going order, with working plant, workmens' dwellings. &c., &c. The slate taken from these quarries is of most excellent quality, Gold Medals having been awarded where a warded where warded warded warded warded where warded wa been awarded wherever exhibited.

Plan of the quarries may be seen, and further information obtained, on application to H. GEBHARDT, 10, Coleman-street, E.C.

NOBELS DYNAMITE



Manufactured and sold by NOBEL'S EXPLOSIVES COMPANY, (FORMERLY THE BRITISH DYNAMITE COMPANY LIMITED), LIMITED

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TONITE, COTTON POWDER, \mathbf{OR}

IS RECOMMENDED TO CONTRACTORS, MINERS, PIT SINKERS, QUARRYMEN, AND OTHERS, AS BEING THE SAFEST, CHEAPEST, AND STRONGEST OF ALL EXPLOSIVES

TONITE is the most efficient and economical blasting agent ever invented, and is largely in demand. It does not contain any Nitro-glycerine, and is, therefore, exempt from the dangers of exudation, or of freezing and its attendant process of thawing.

The Company manufacture

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The trade supplied on favourable terms.

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No implements required for opening inner tin box, thereby avoiding any danger arising from opening same with tools, as generally used.

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SOLE AGENT FOR THE UNITED KINGDOM AND THE COLONIES,

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SECOND-HAND MINING MACHINERY FOR SALE,
IN GOOD CONDITION, AT MODERATE PRICES—VIE.

PUMPING ENGINES; WINDING ENGINES; STAMPING ENGINES, STEAM CAPSTANS; ORE ORUSHERS; BOILERS and PITWORK of various sizes and descriptions; and all kinds of MATERIALS required for MINING PURPOSES.

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PACIFIC IRON WORKS

RANKIN, BRAYTON, AND CO.

For Copper and Argentiferous Galena Ores. GENERAL OFFICE AND WORKS,

San Francisco, Cal., U.S.A.

BRANCH WORKS,-CHICAGO, ILLINOIS, U.S.A.

BRANCH WORKS,—CHICAGO, ILLINOIS, U.S.A.

The Pacific Water Jacket Smelters embrace many features that are entirely new and of great practical utility, which are secured by letters patent.

No other furnaces can compare with these for durability, and in capacity for continuous and interrupted work.

More than One Hundred

of them are now running in the various mining districts of the United States, giving results never before obtained as regards continuous running, economy of fuel grade and quality of bullion produced.

produced.

These Smelters are shipped in a complete state, requiring no brick or stone work, thus saving great expense and less of time in construction.

Complete smelting plants made to order, with all the improvements that experience has proved valuable in this class of machinery. Skilled and experienced smelters furnished when desired to examine mines and to superintend constructing and running of furnaces Estimates given upon application. Send for circular.

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RON AND STEEL RAILS, of all sections, from 10 to 86 lbs. per yard, new perfect, new slightly defective, or second-hand, with Fish-plates, Bolts and Nuts, Chairs, Spikes, and Points and Crossings to match, when re-

STEEL AND IRON WIRE ROPES, LOCOMOTIVE ENGINES, &c., &c.

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J. JACKSON, Manager.

THE MINING SHARE LIST.		[MARCH 29, 18
BRITISH DIVIDEND MINES. Paid. Last wk. Clos. pr. Total divs. Per sh. Last pd. 100 Blos Hills \$1, c, 55. Aghes\$	Shares	NON-DIVIDEND MINES Continued Stares Paid Last set

CC	MPANIES; GAS, IRON AND	COAL, WAGON COMPANIES,	&c.
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